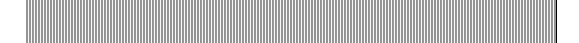
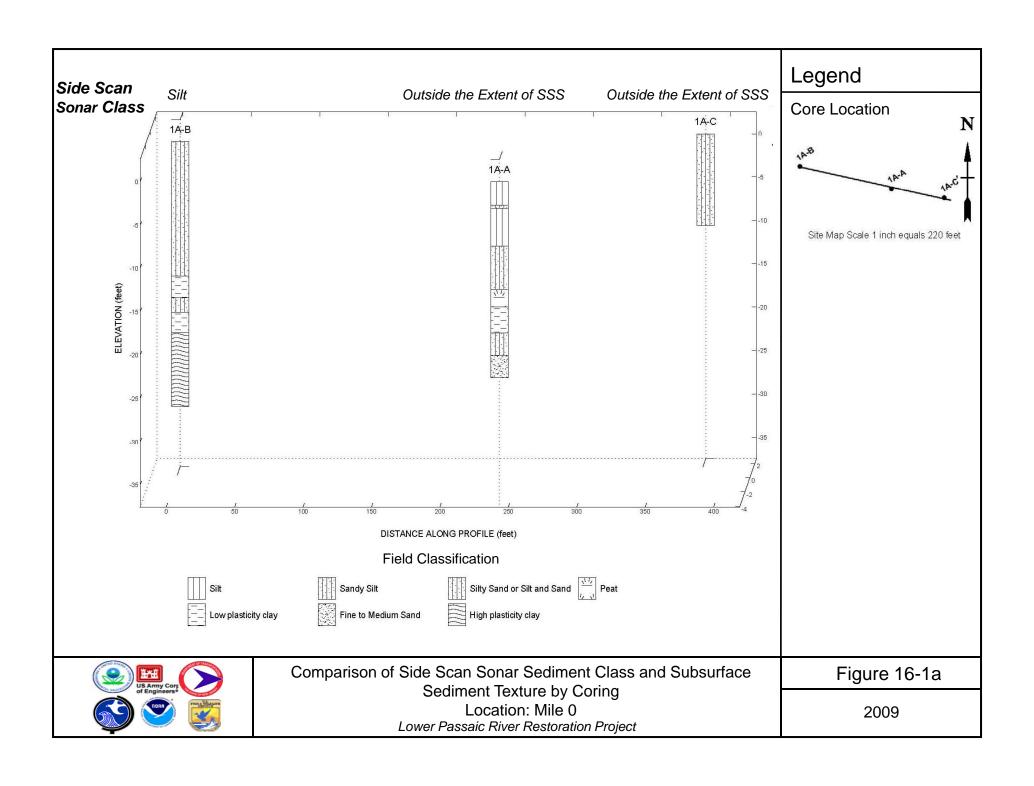
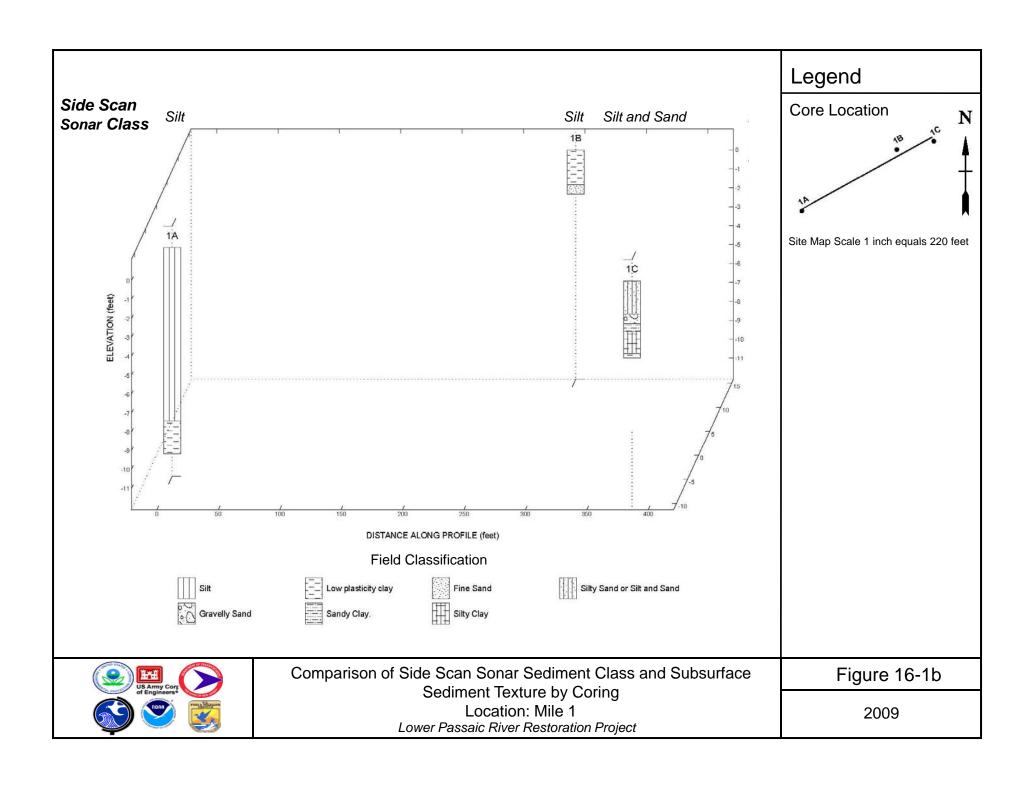
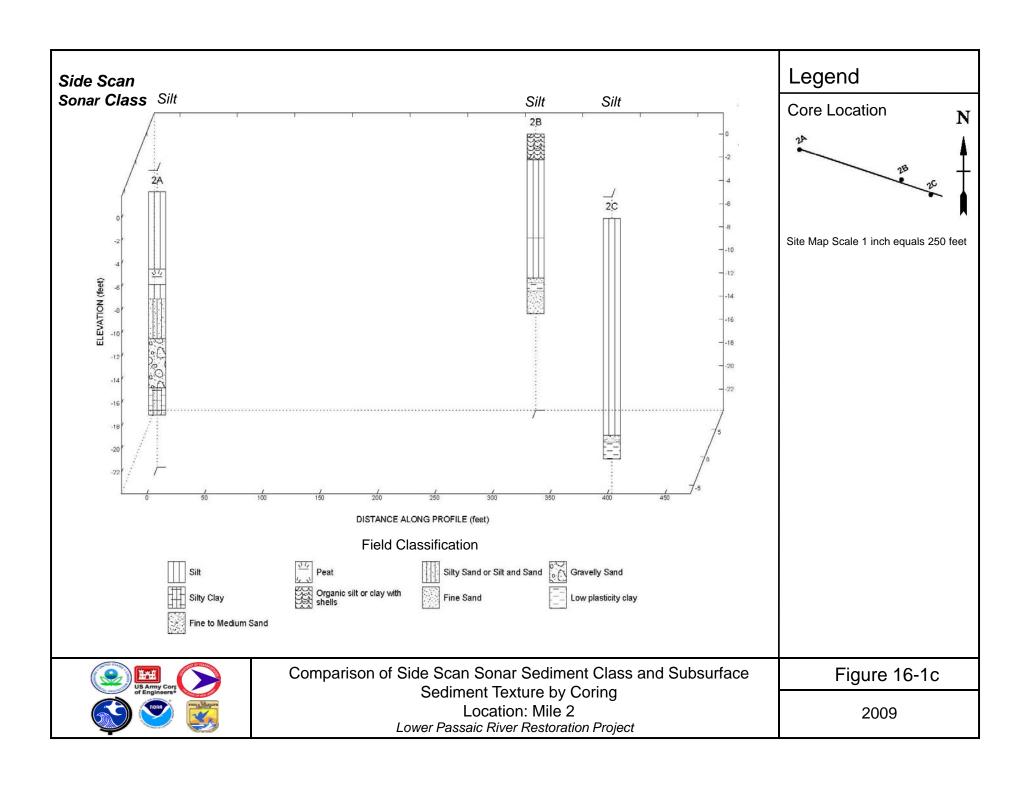


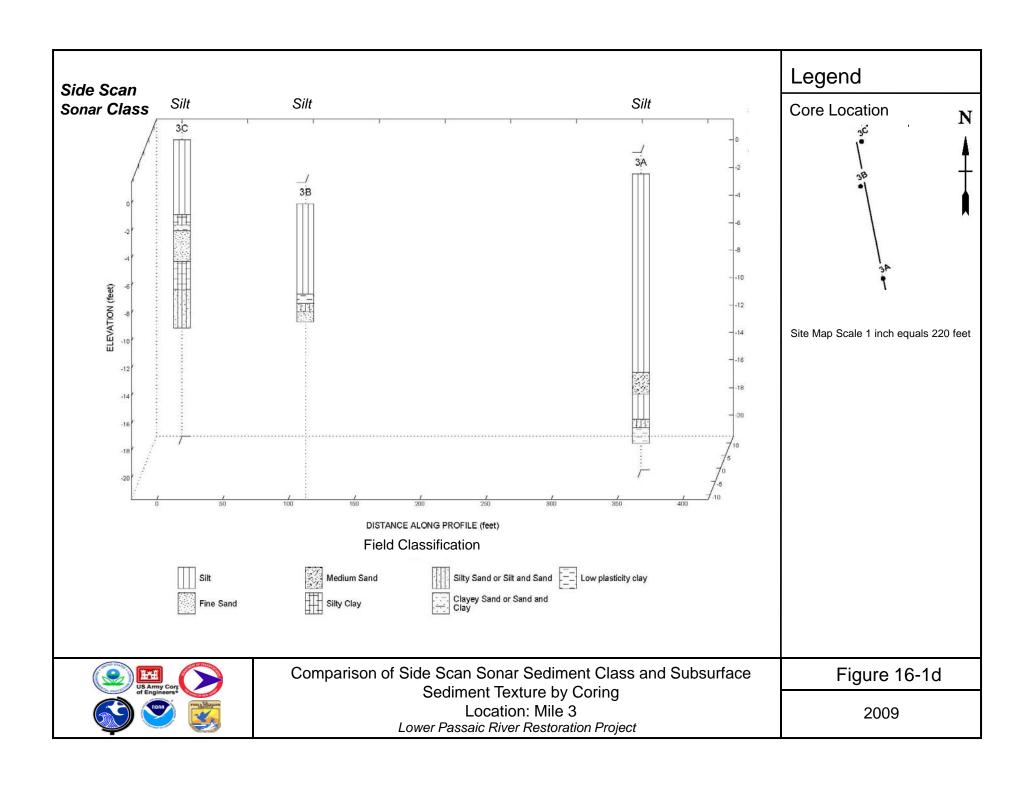
# **Chapter 16 Figures**

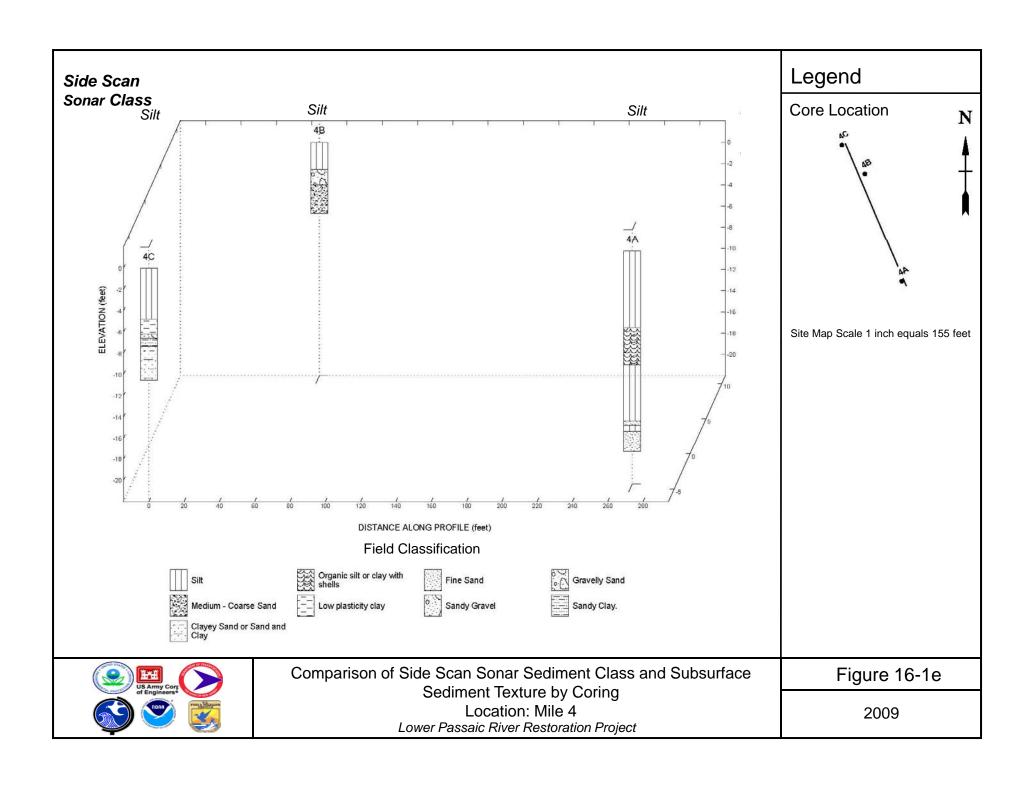


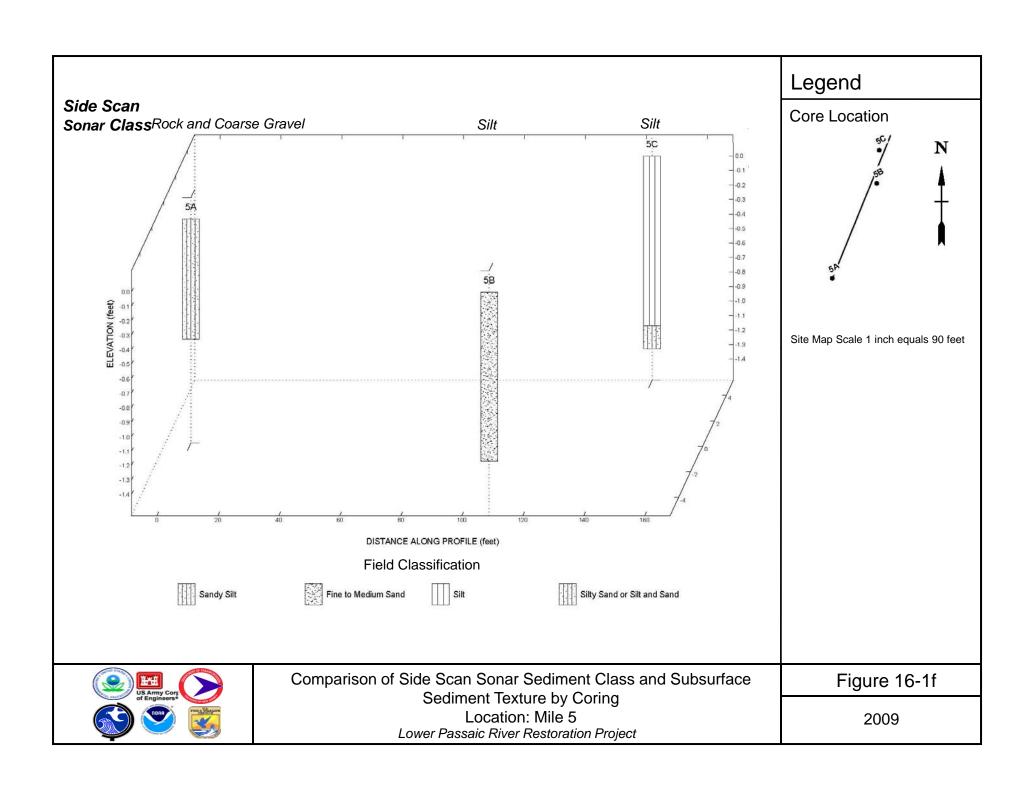


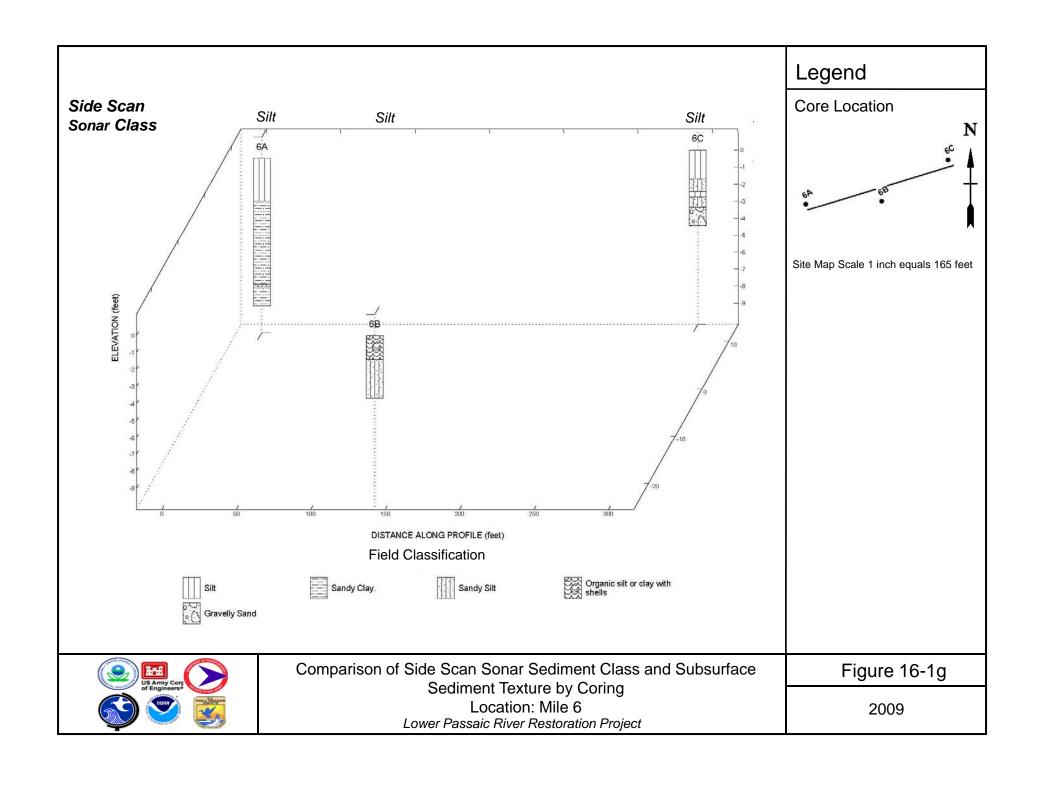


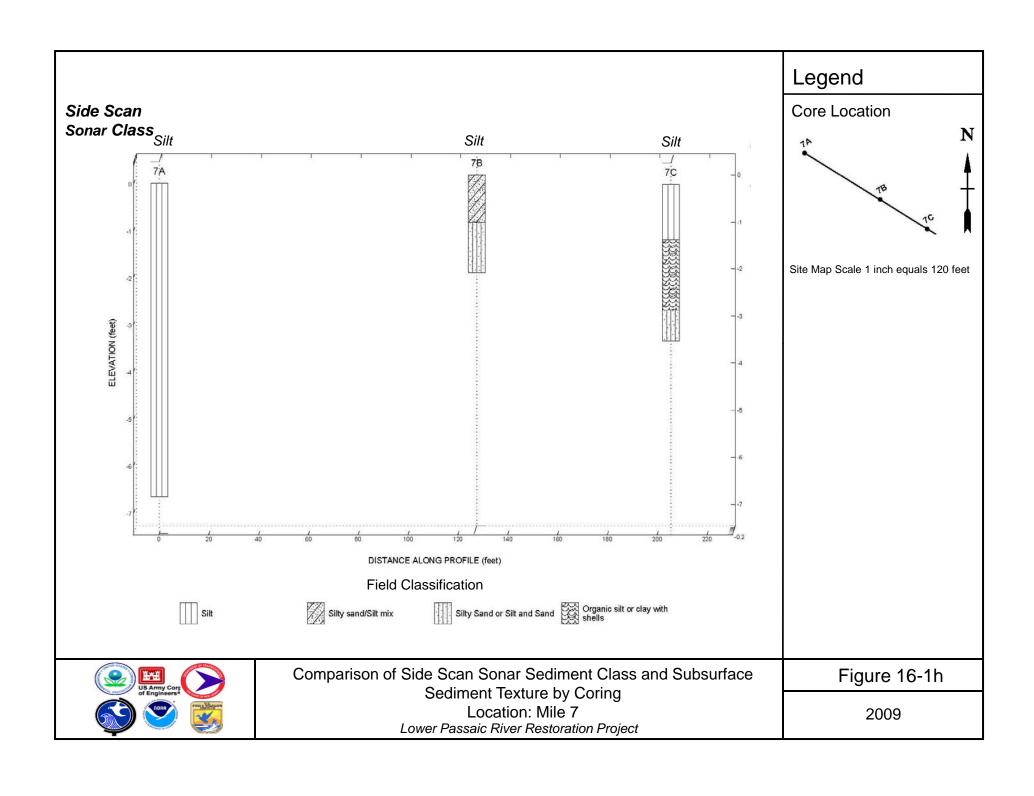


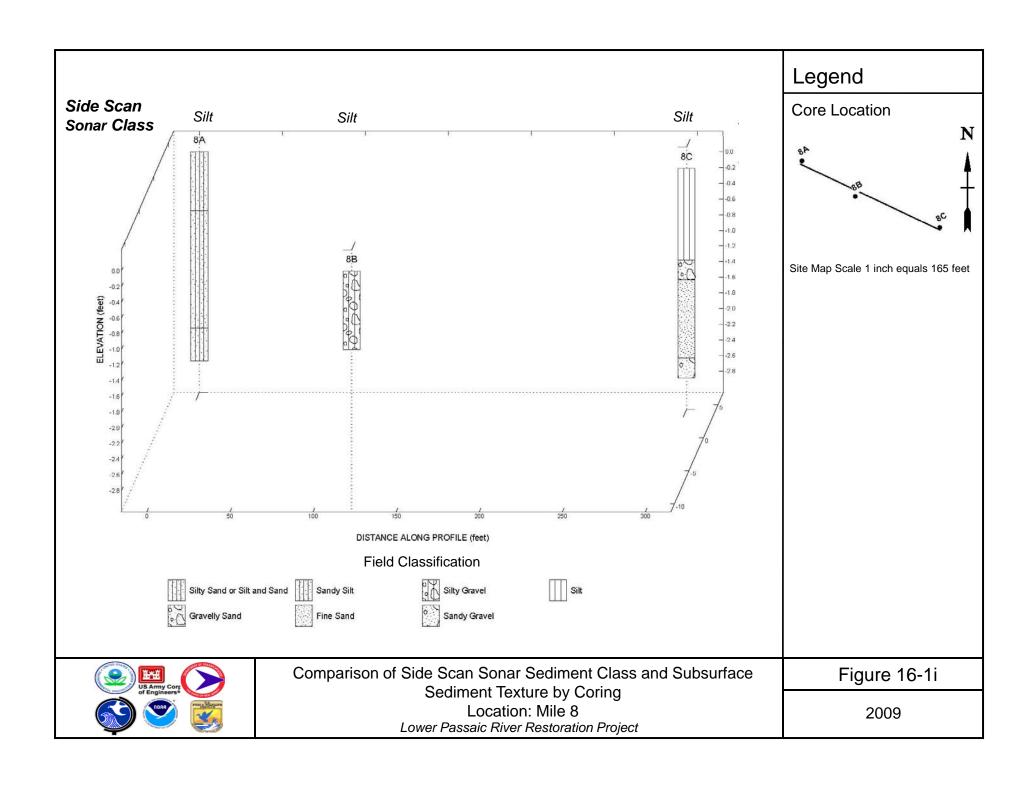


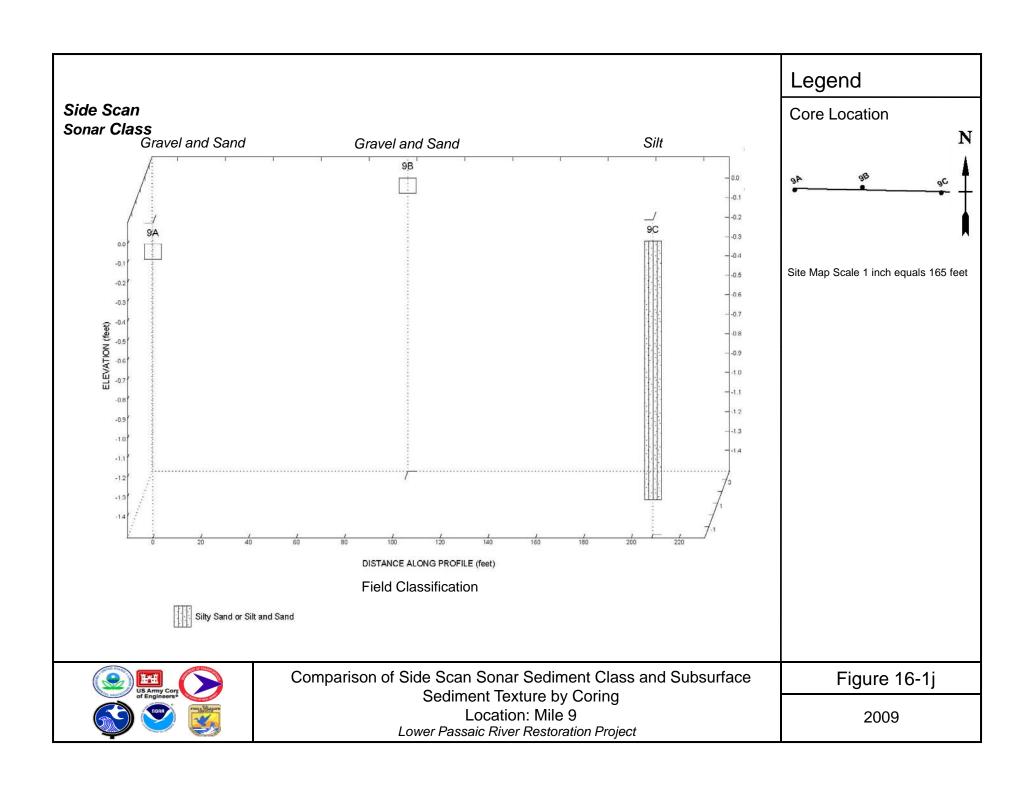


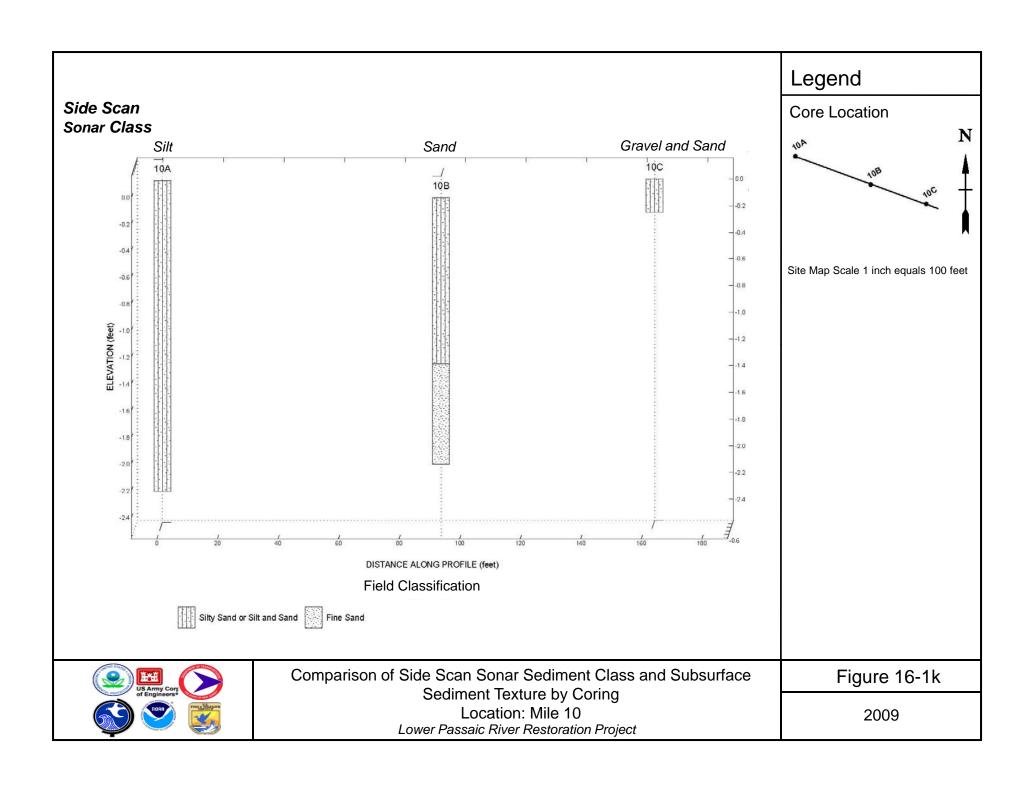


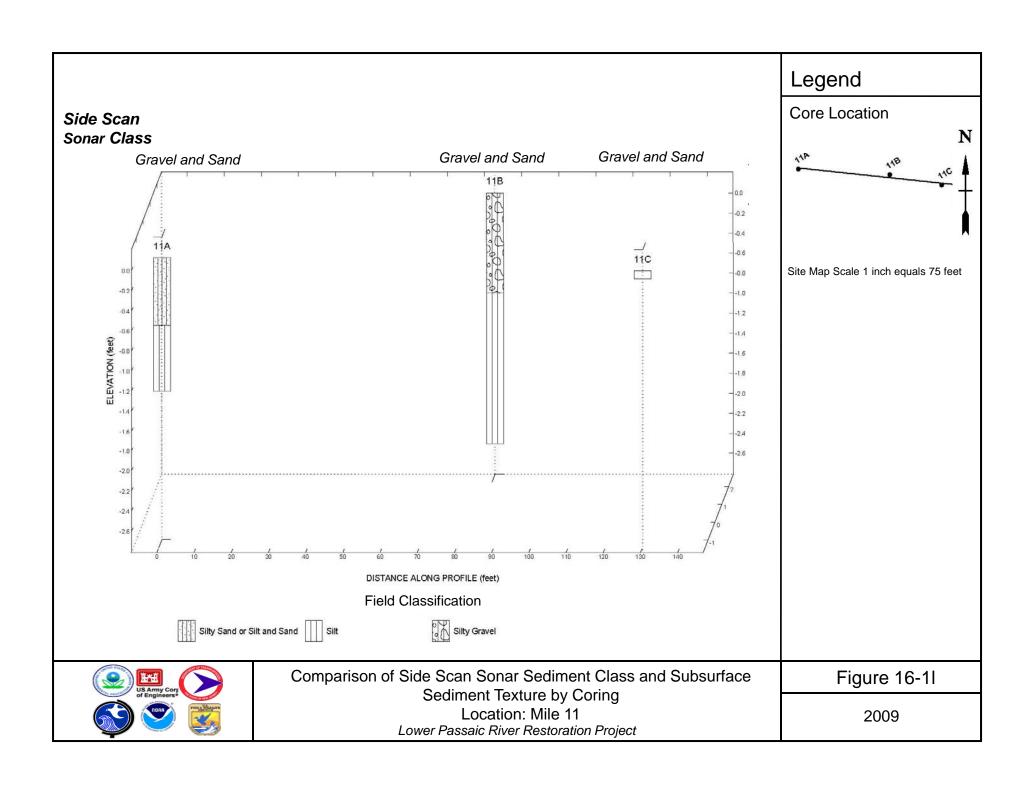


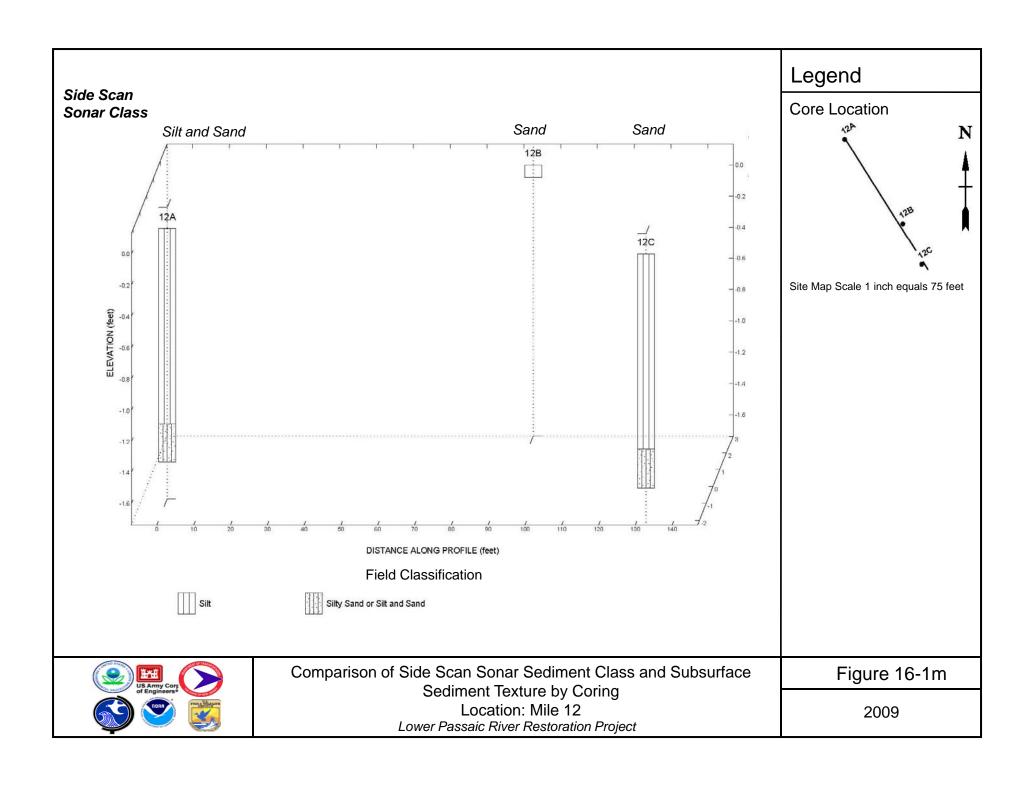


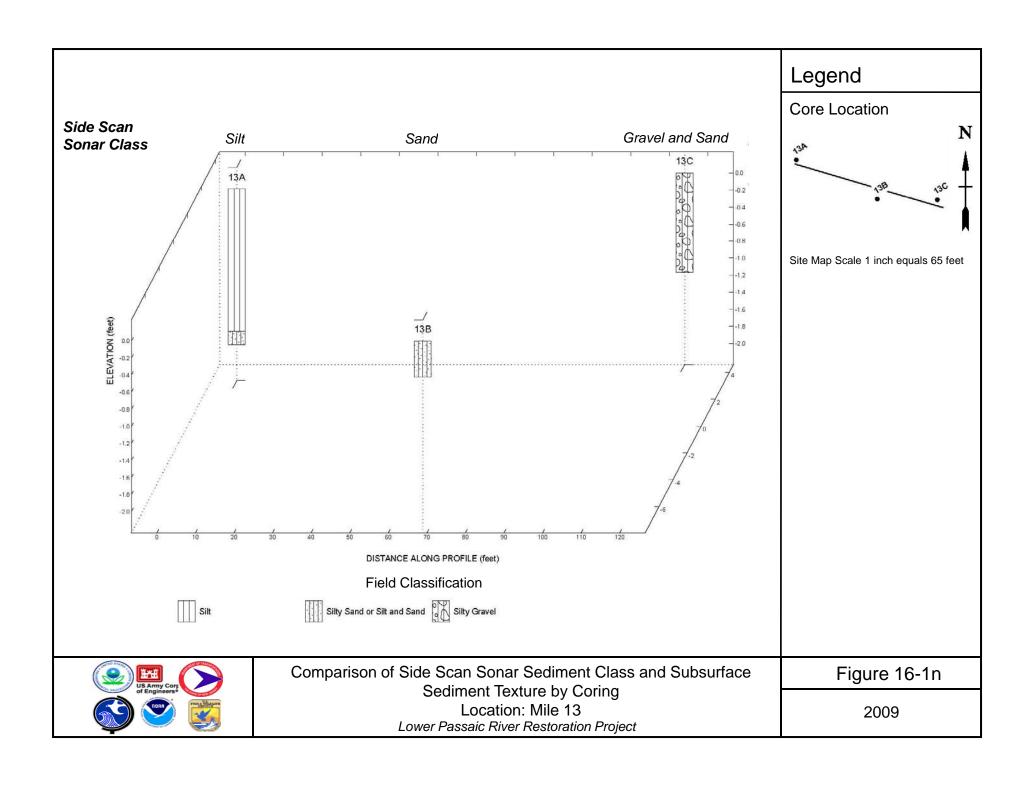


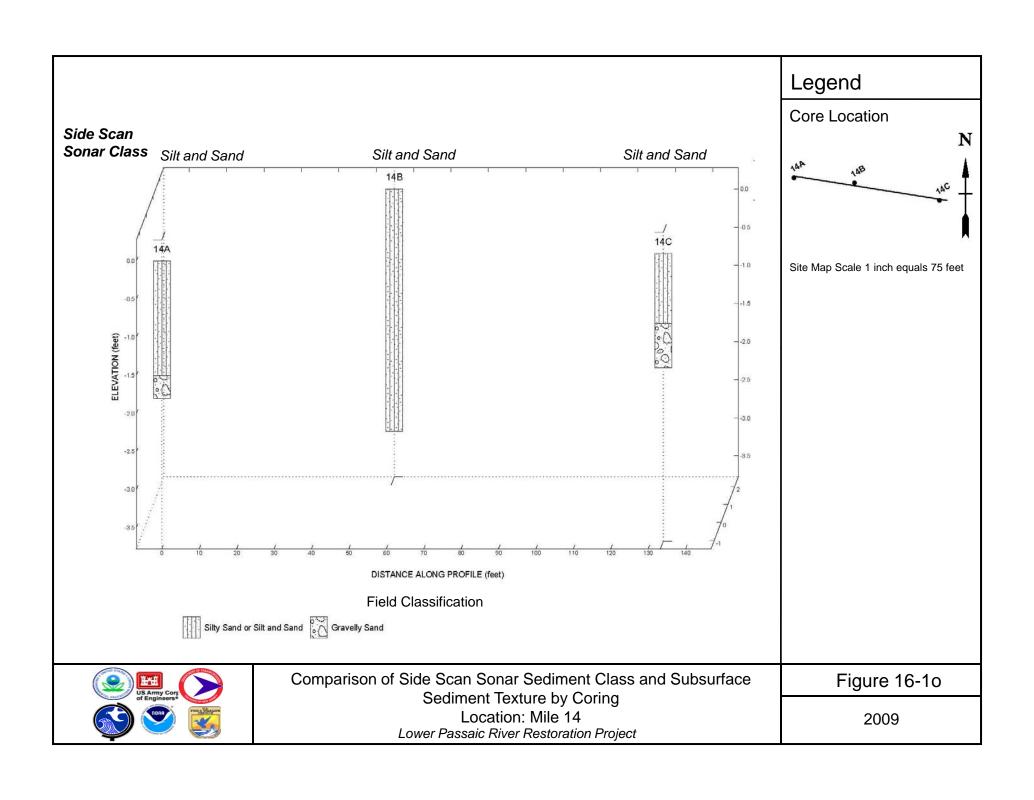


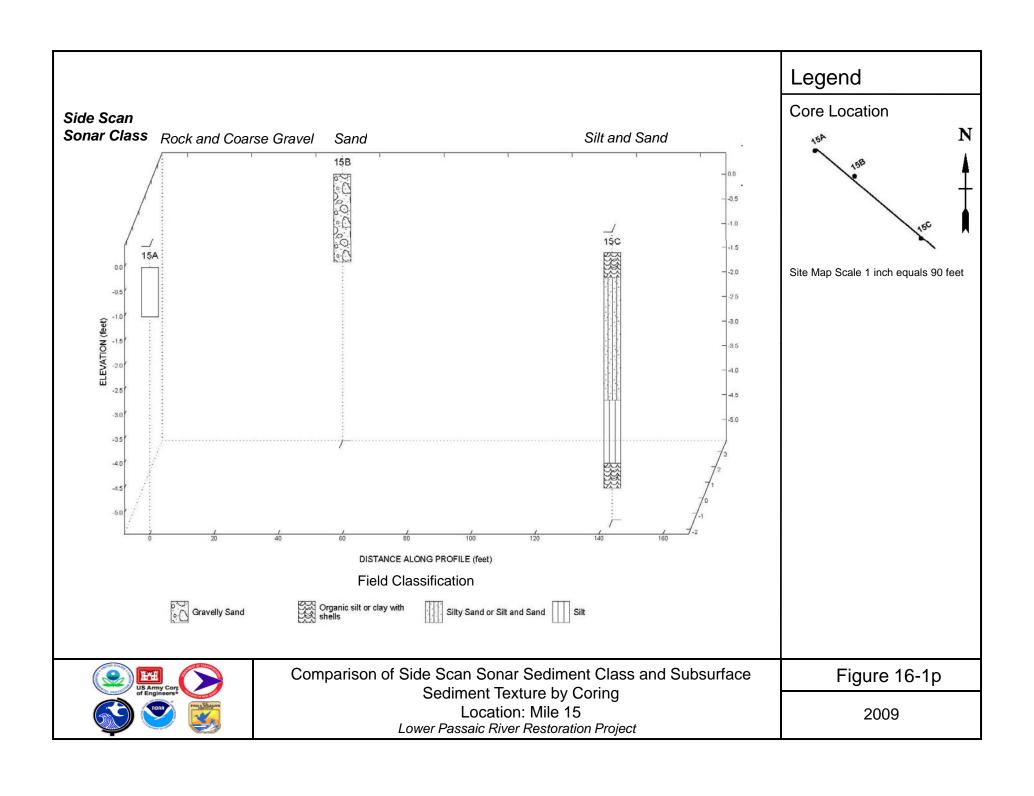


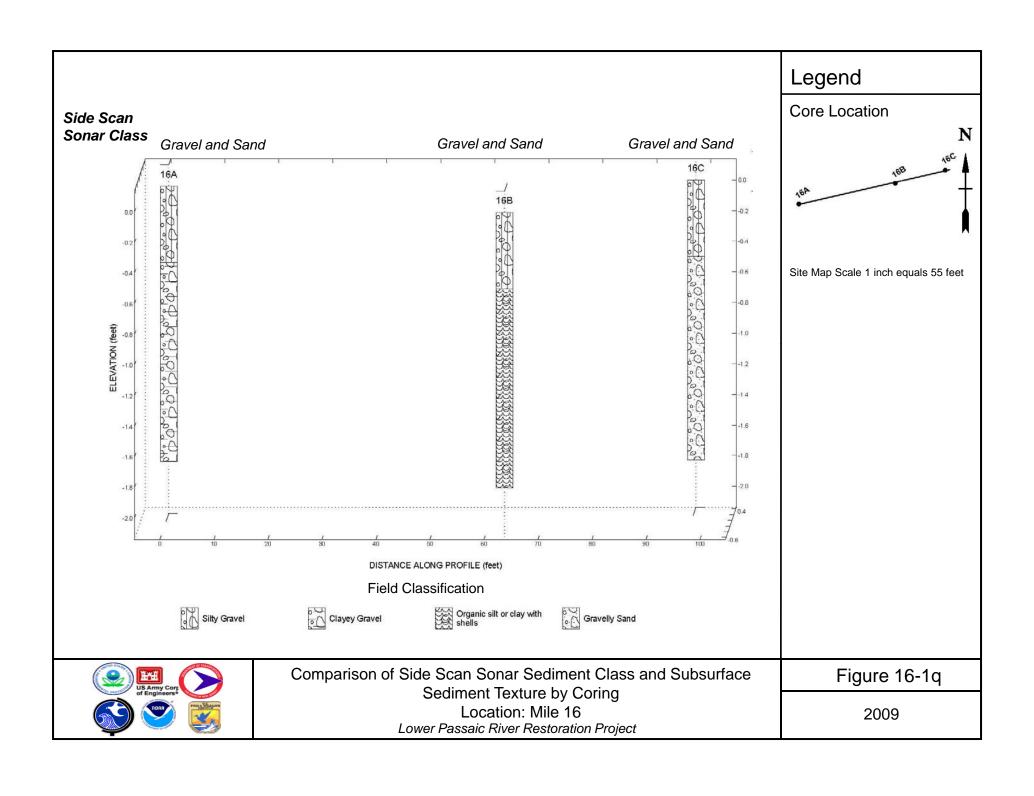


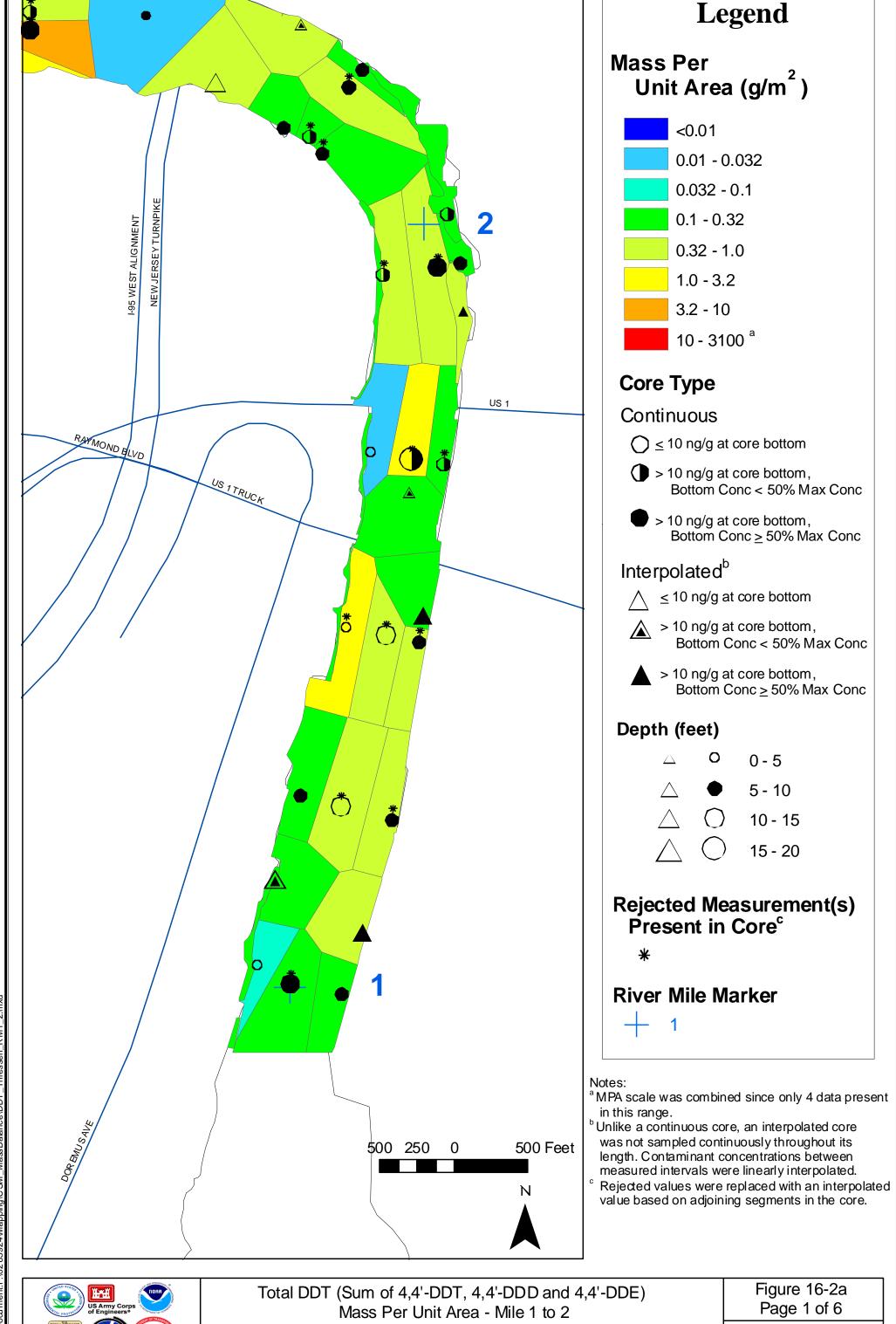








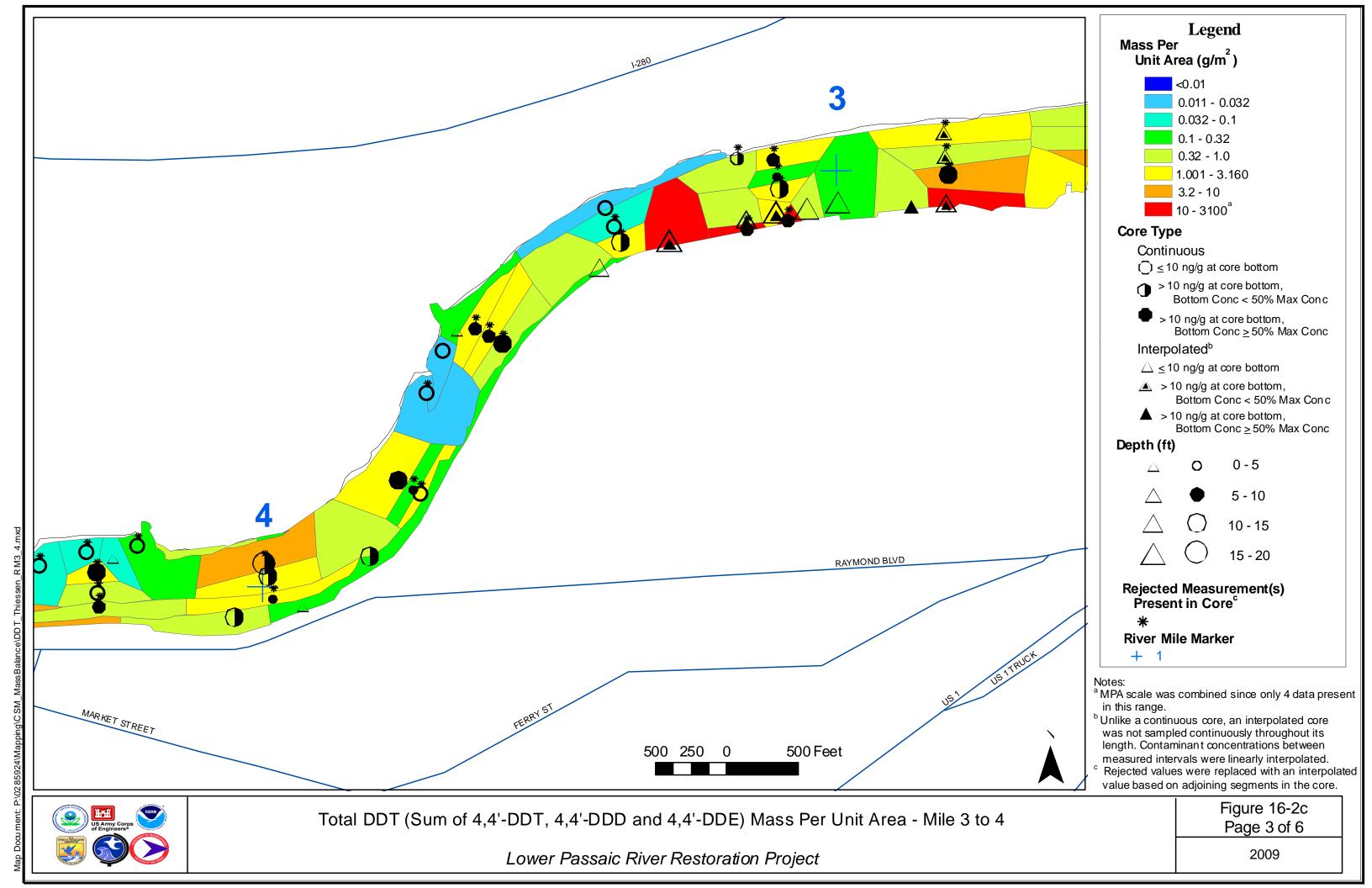


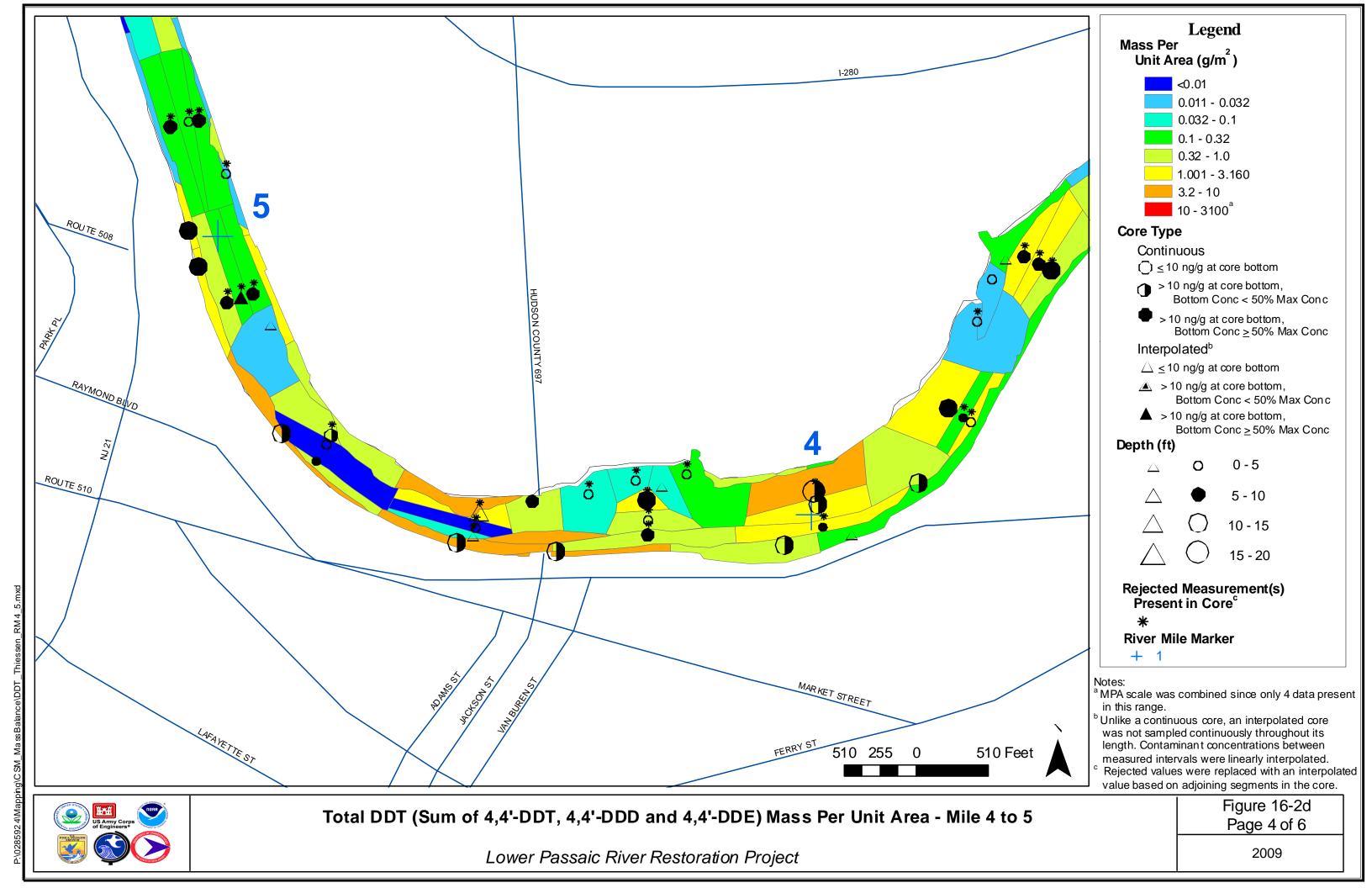


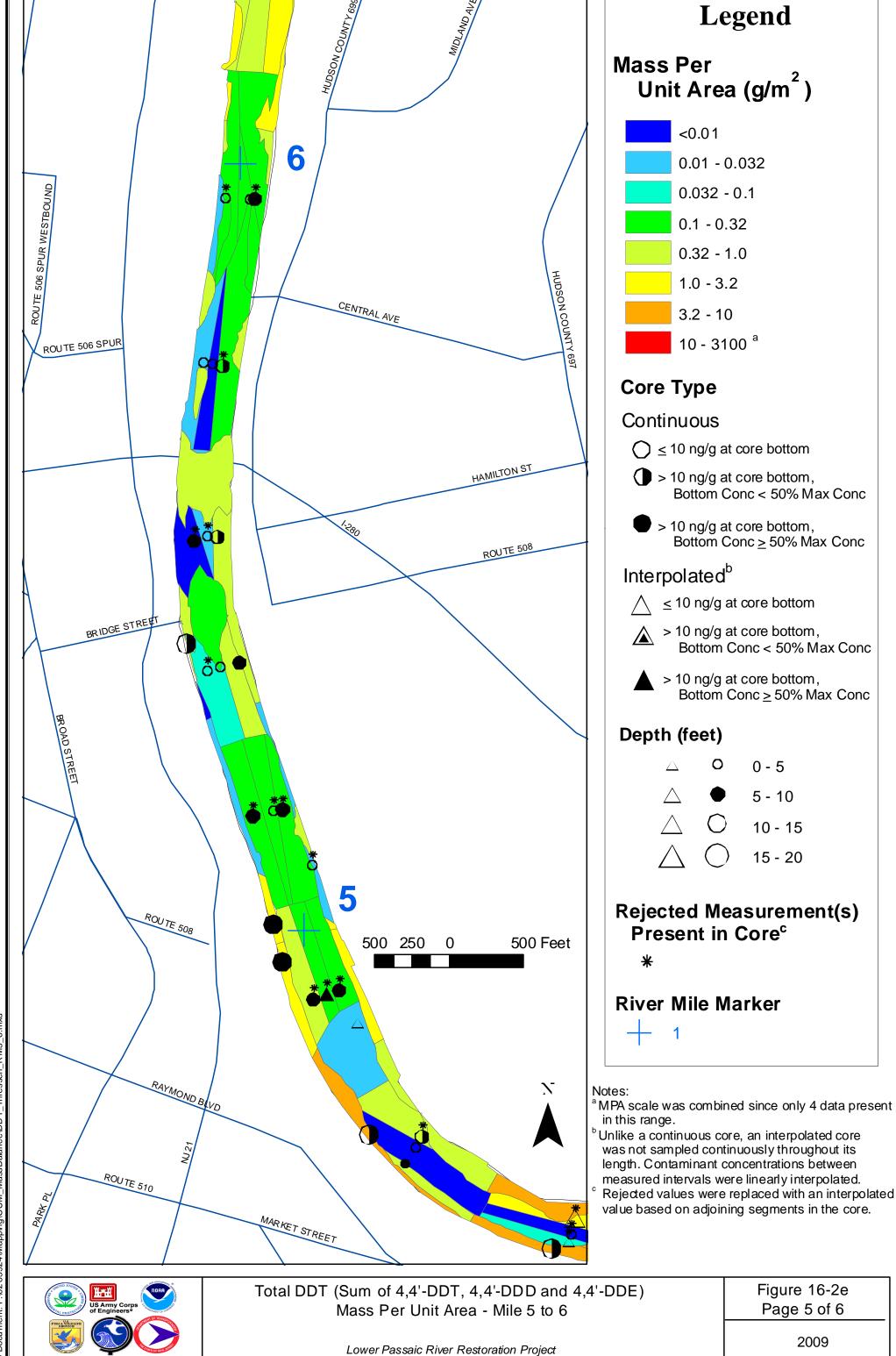
Lower Passaic River Restoration Project

2009

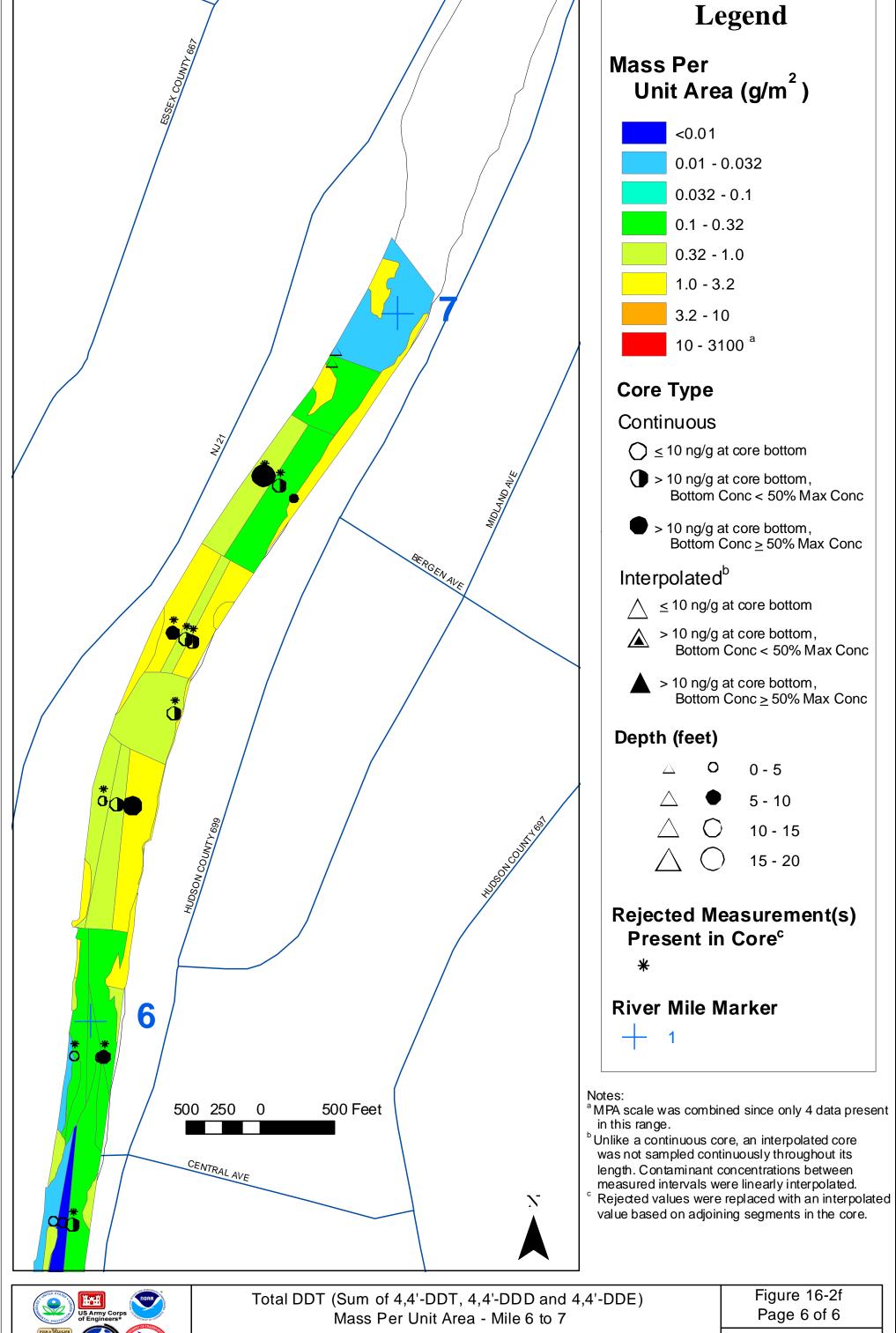
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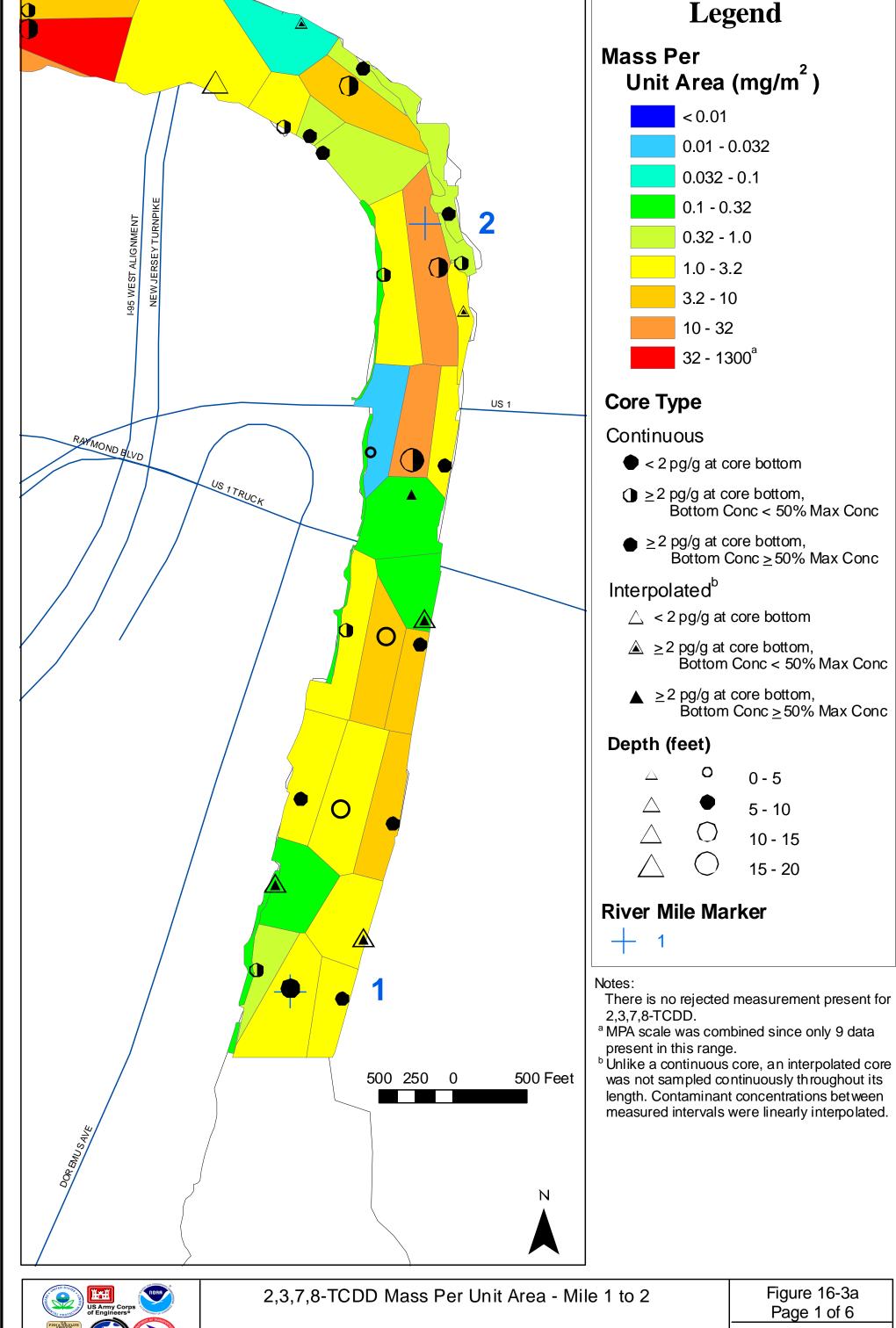


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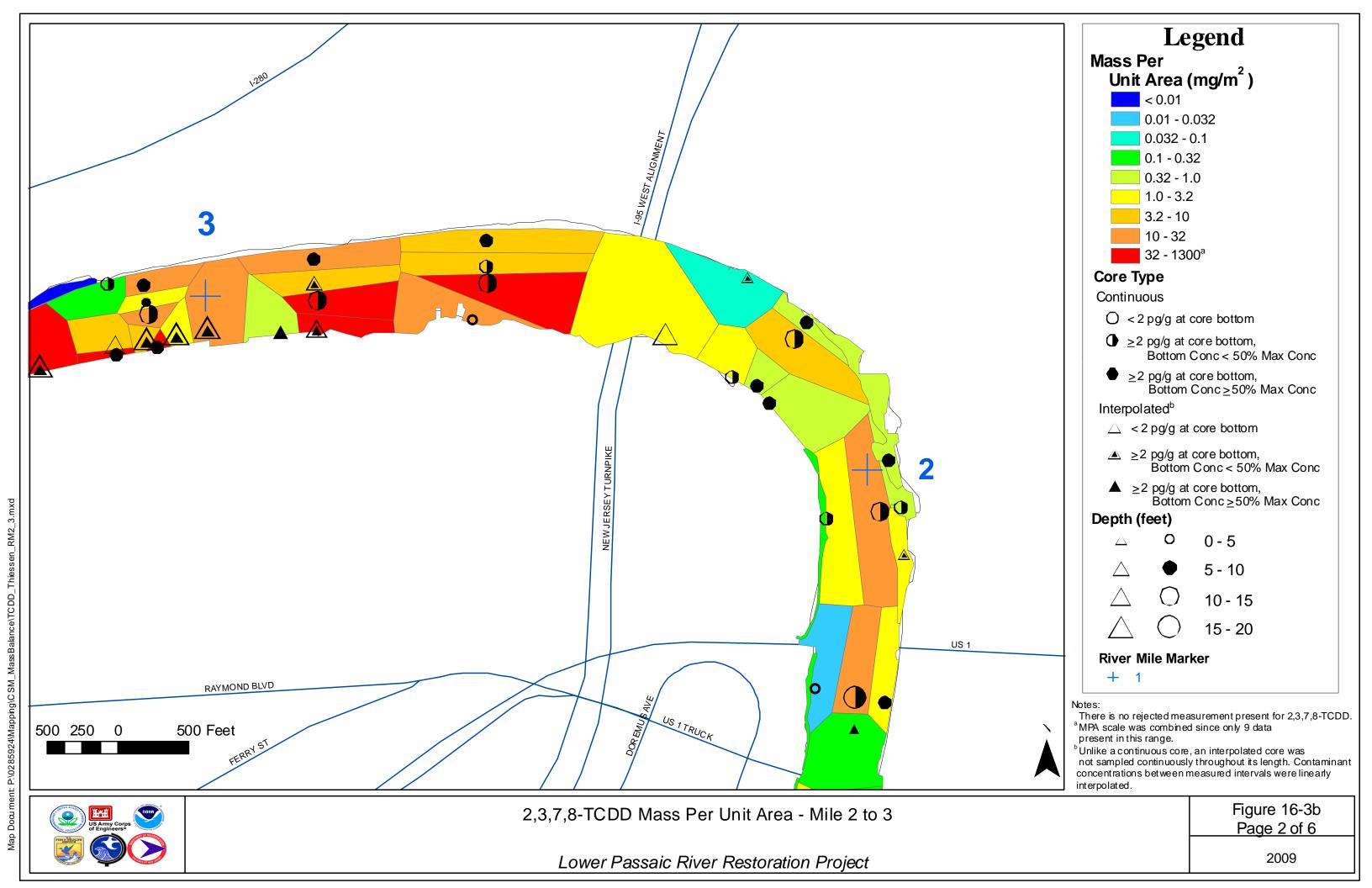
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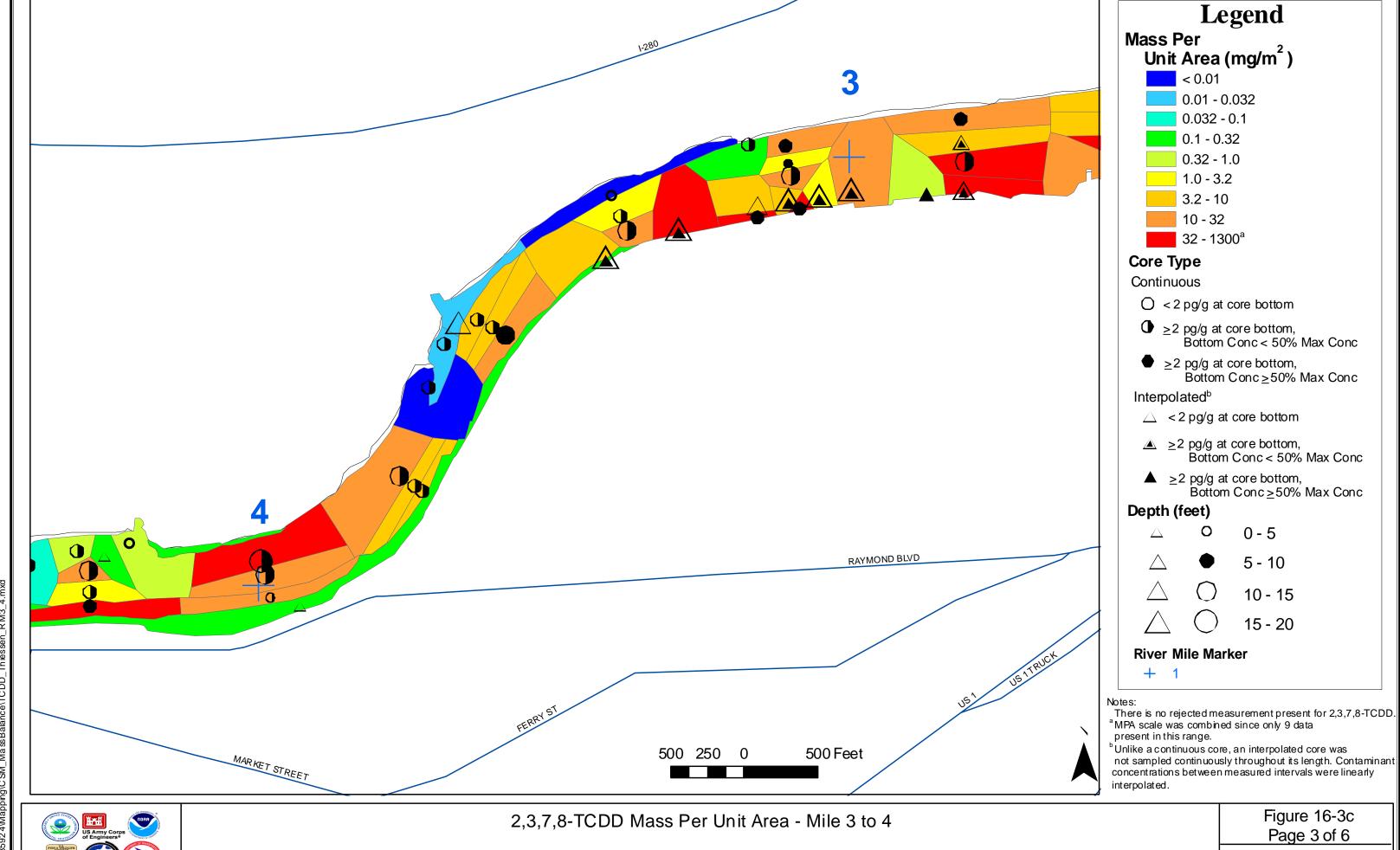
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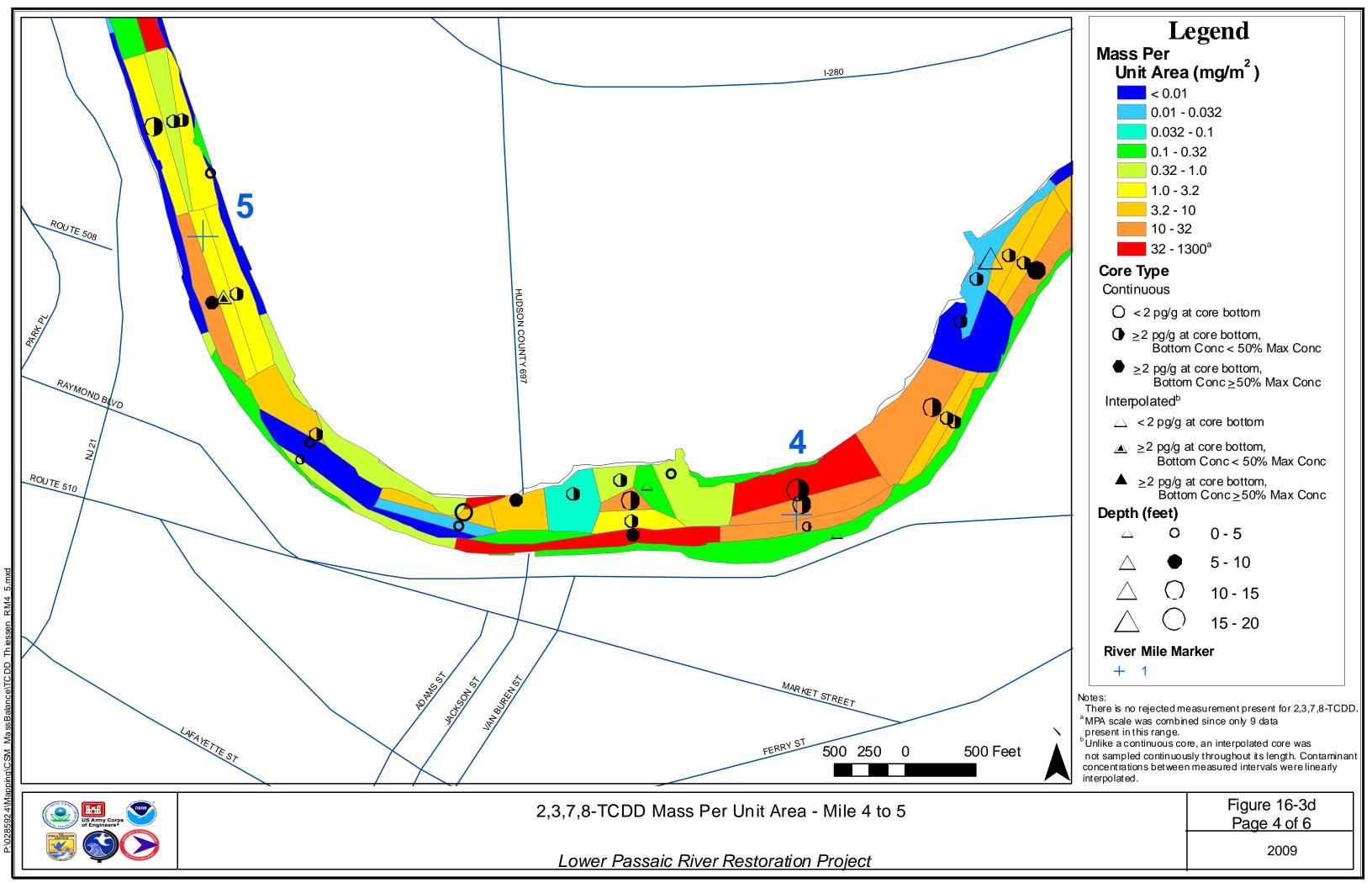
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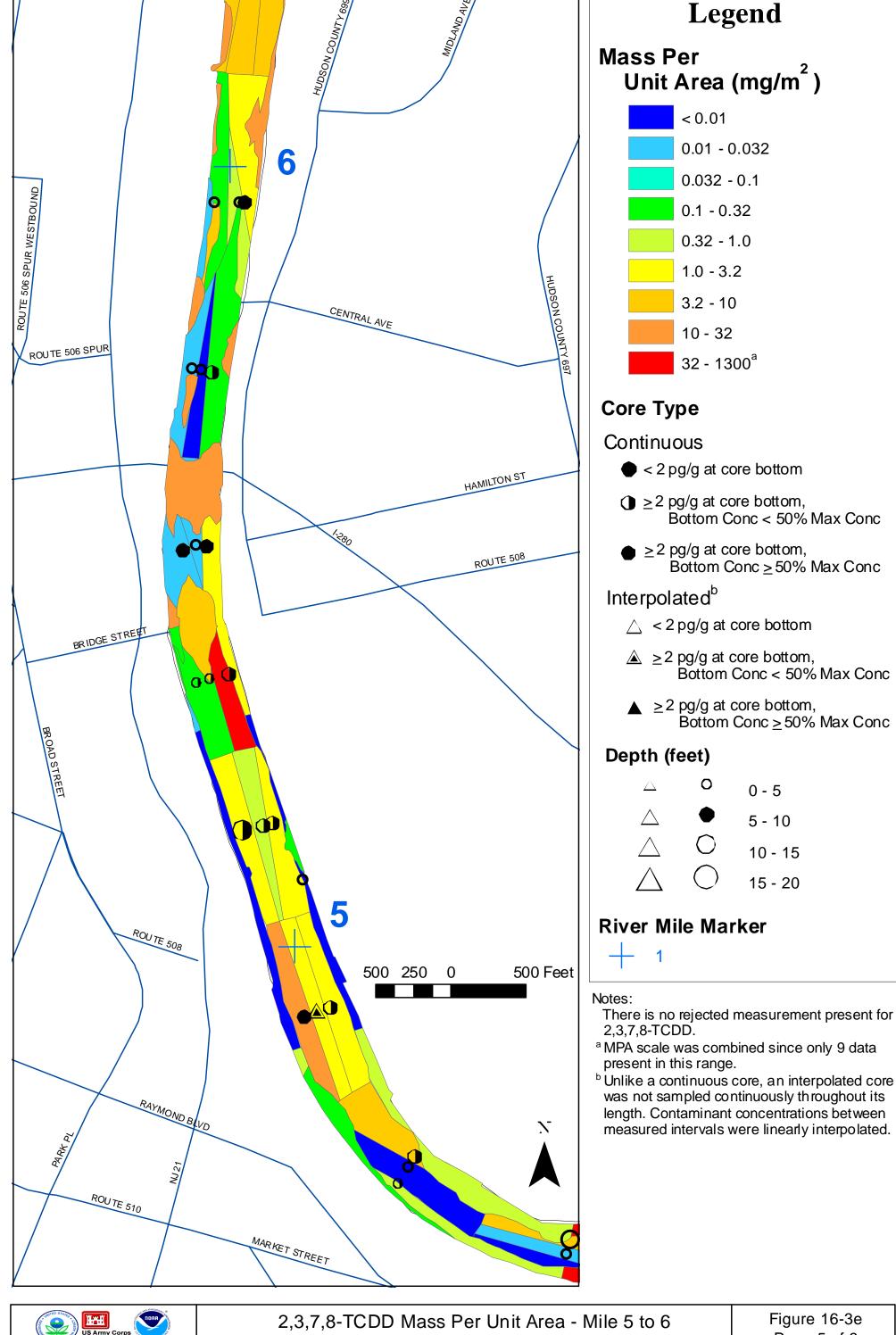




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Page 5 of 6

# Legend

## **Mass Per** Unit Area (mg/m<sup>2</sup>)

< 0.01

0.01 - 0.032

0.032 - 0.1

0.1 - 0.32

0.32 - 1.0

1.0 - 3.2

3.2 - 10

10 - 32 32 - 1300<sup>a</sup>

## **Core Type**

### Continuous

- < 2 pg/g at core bottom</p>
- $\bigcirc$   $\geq$  2 pg/g at core bottom, Bottom Conc < 50% Max Conc
- riangle  $\geq$  2 pg/g at core bottom, Bottom Conc ≥ 50% Max Conc

## Interpolated<sup>b</sup>

 $\triangle$  < 2 pg/g at core bottom

≥ 2 pg/g at core bottom, Bottom Conc < 50% Max Conc
</p>

▲ ≥2 pg/g at core bottom, Bottom Conc ≥ 50% Max Conc

#### Depth (feet)

0 - 5

5 - 10

10 - 15

15 - 20

#### **River Mile Marker**



There is no rejected measurement present for

<sup>a</sup> MPA scale was combined since only 9 data present in this range.

<sup>b</sup> Unlike a continuous core, an interpolated core was not sampled continuously throughout its length. Contaminant concentrations between measured intervals were linearly interpolated.



Map Document: P:\0.285924\Mapping\CSM\_MassBalance\TCDD\_Thiessen\_RM6\_7.mxd

2,3,7,8-TCDD Mass Per Unit Area - Mile 6 to 7

Figure 16-3f Page 6 of 6

Mass Per Unit Area - Mile 1 to 2

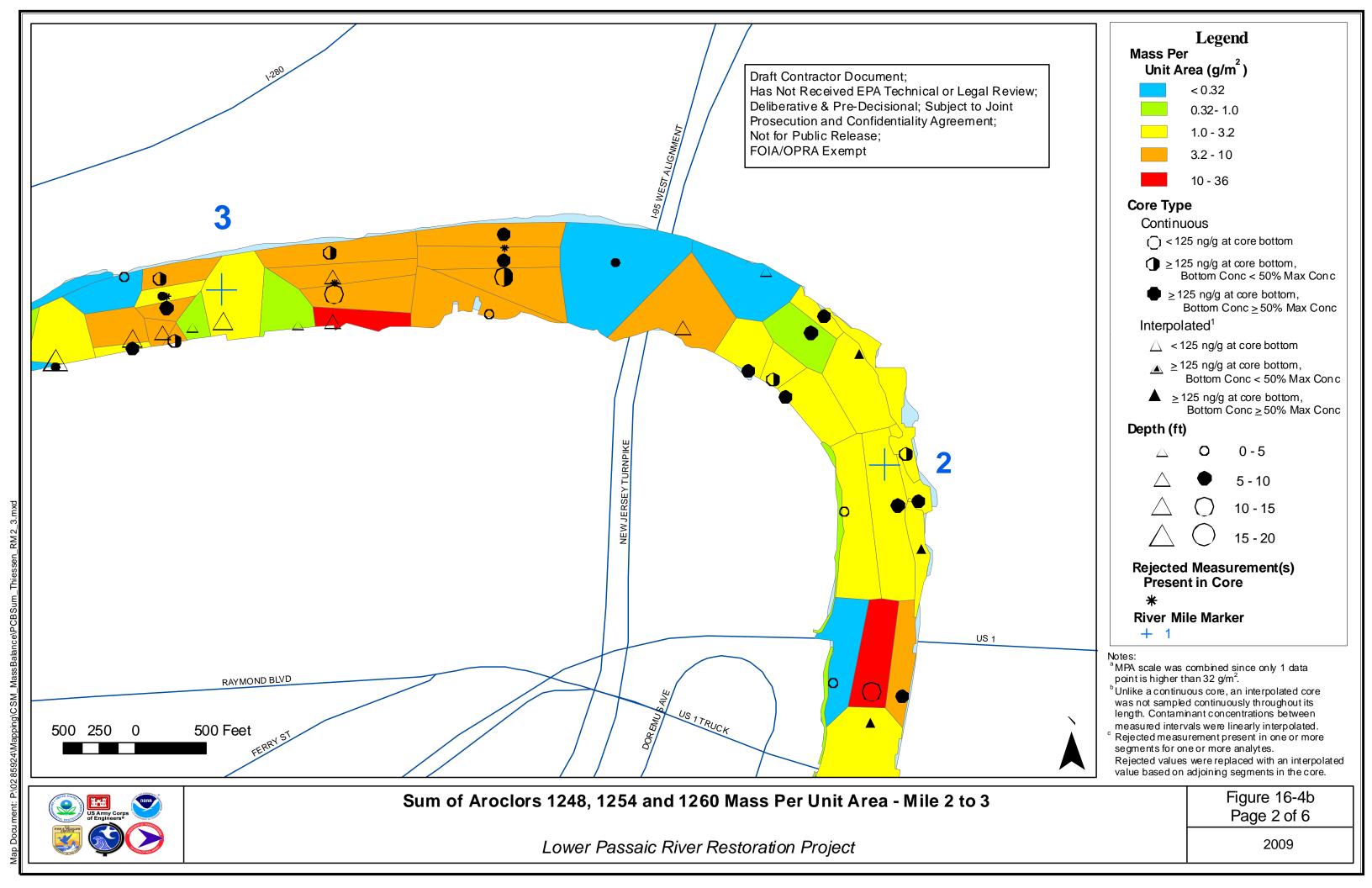
Lower Passaic River Restoration Project

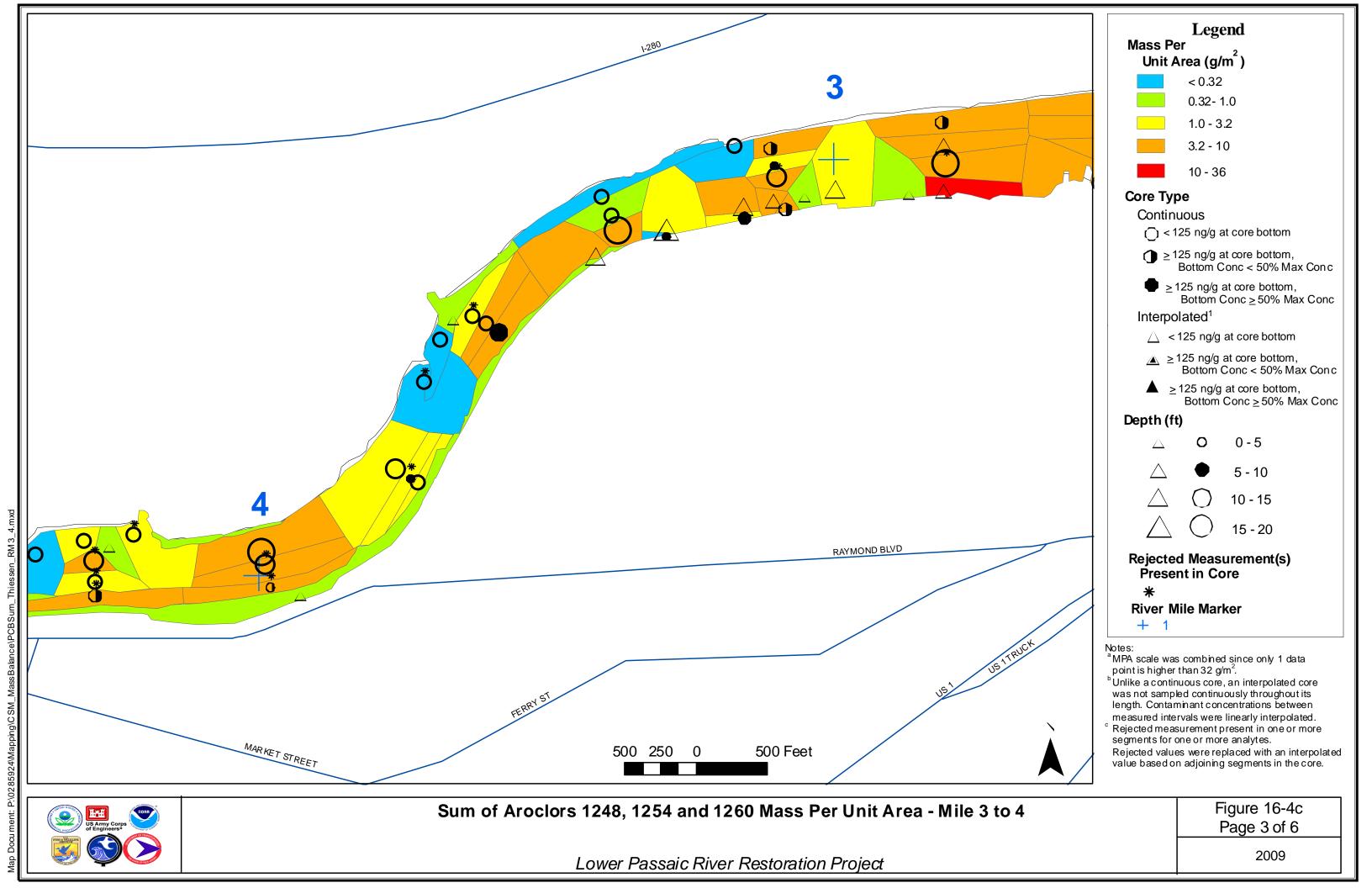
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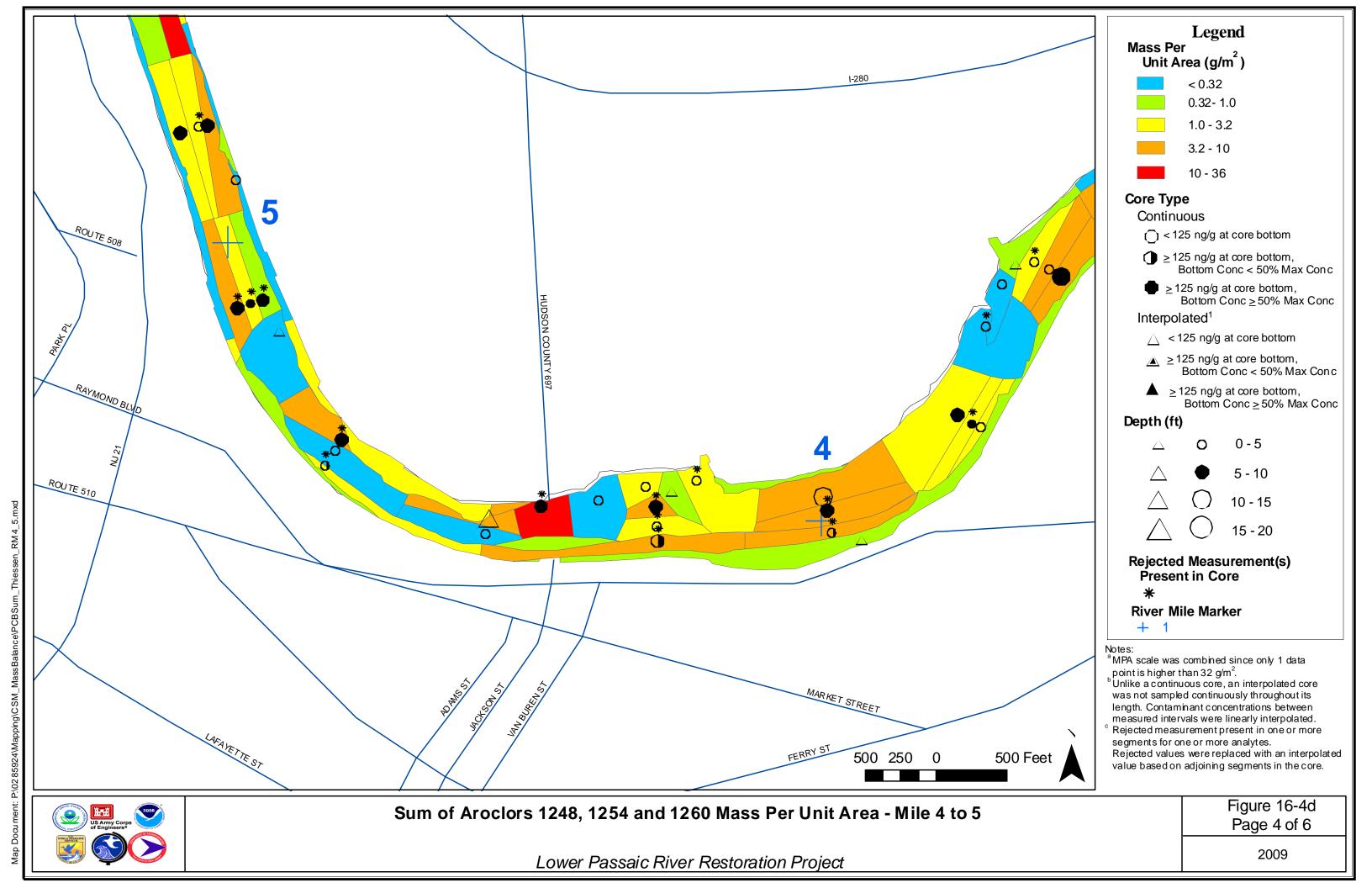
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2009

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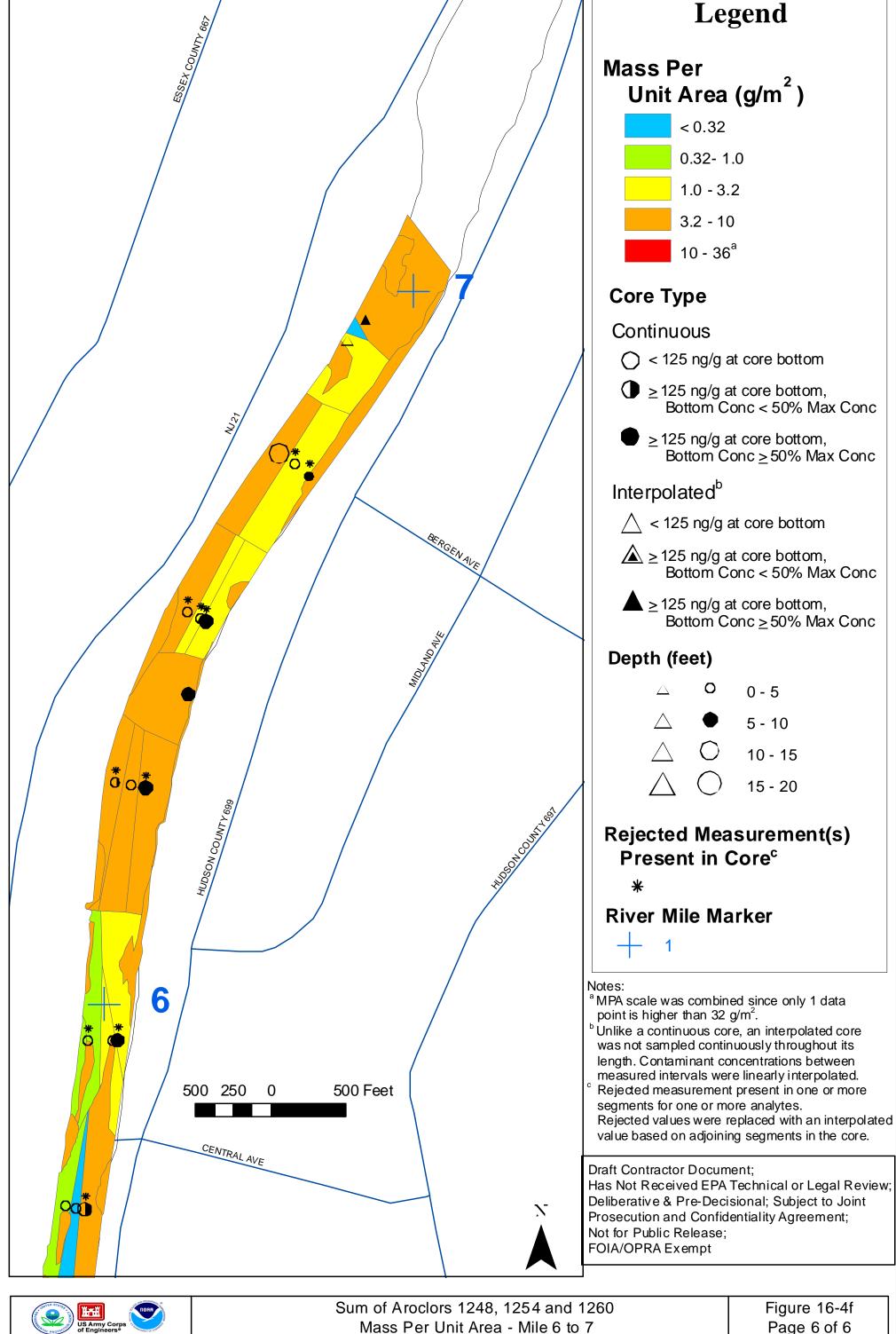




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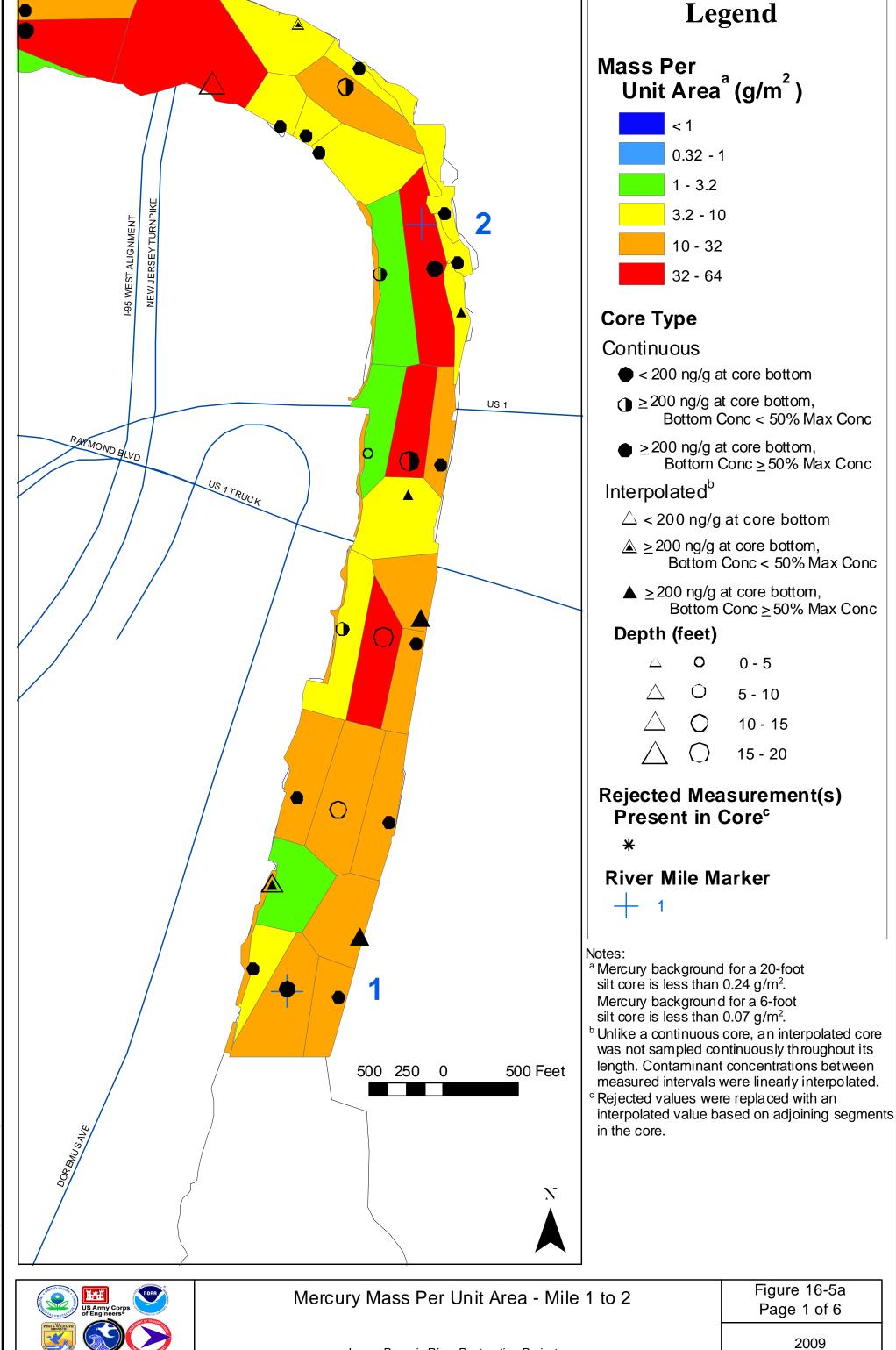
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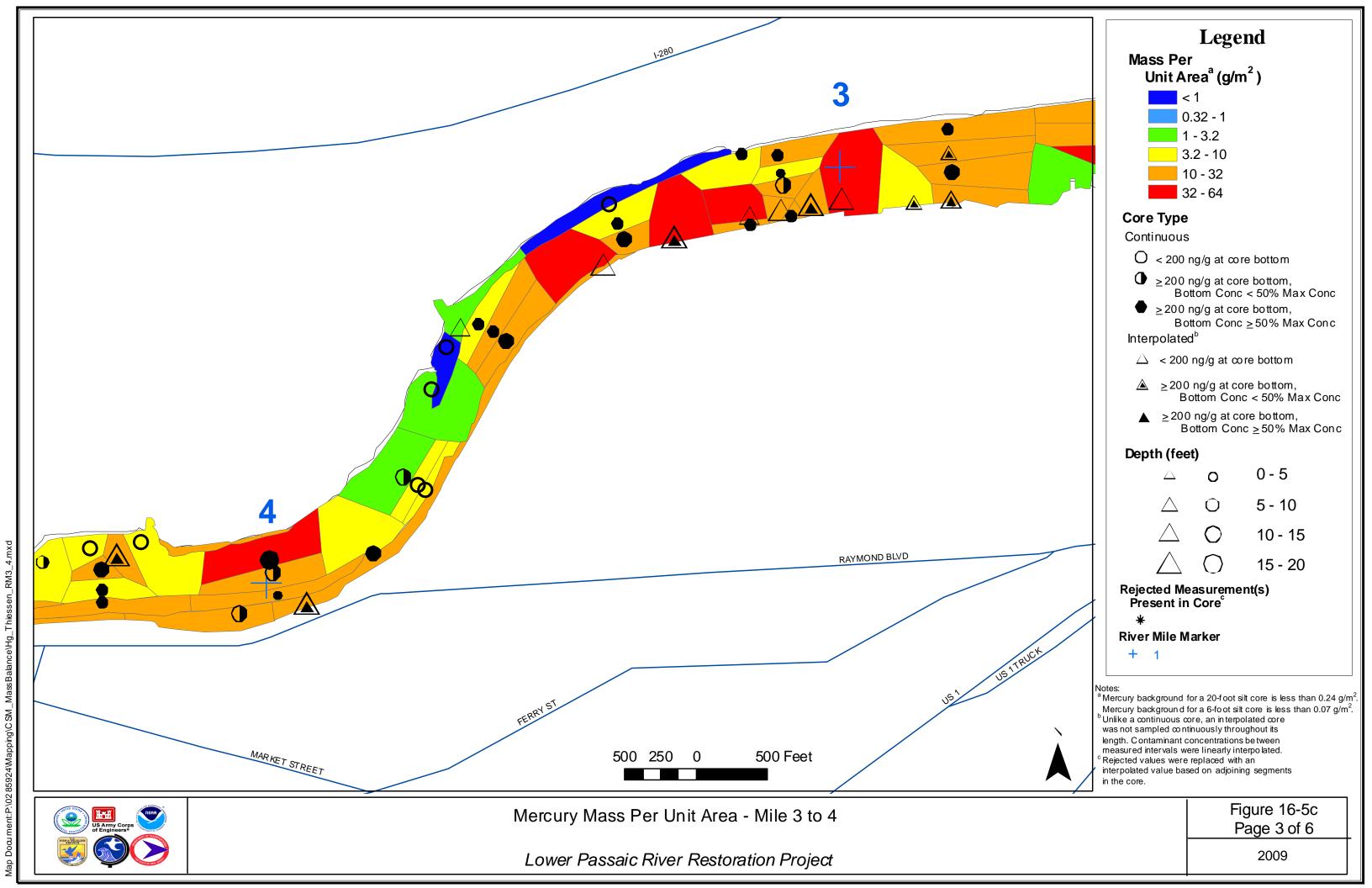
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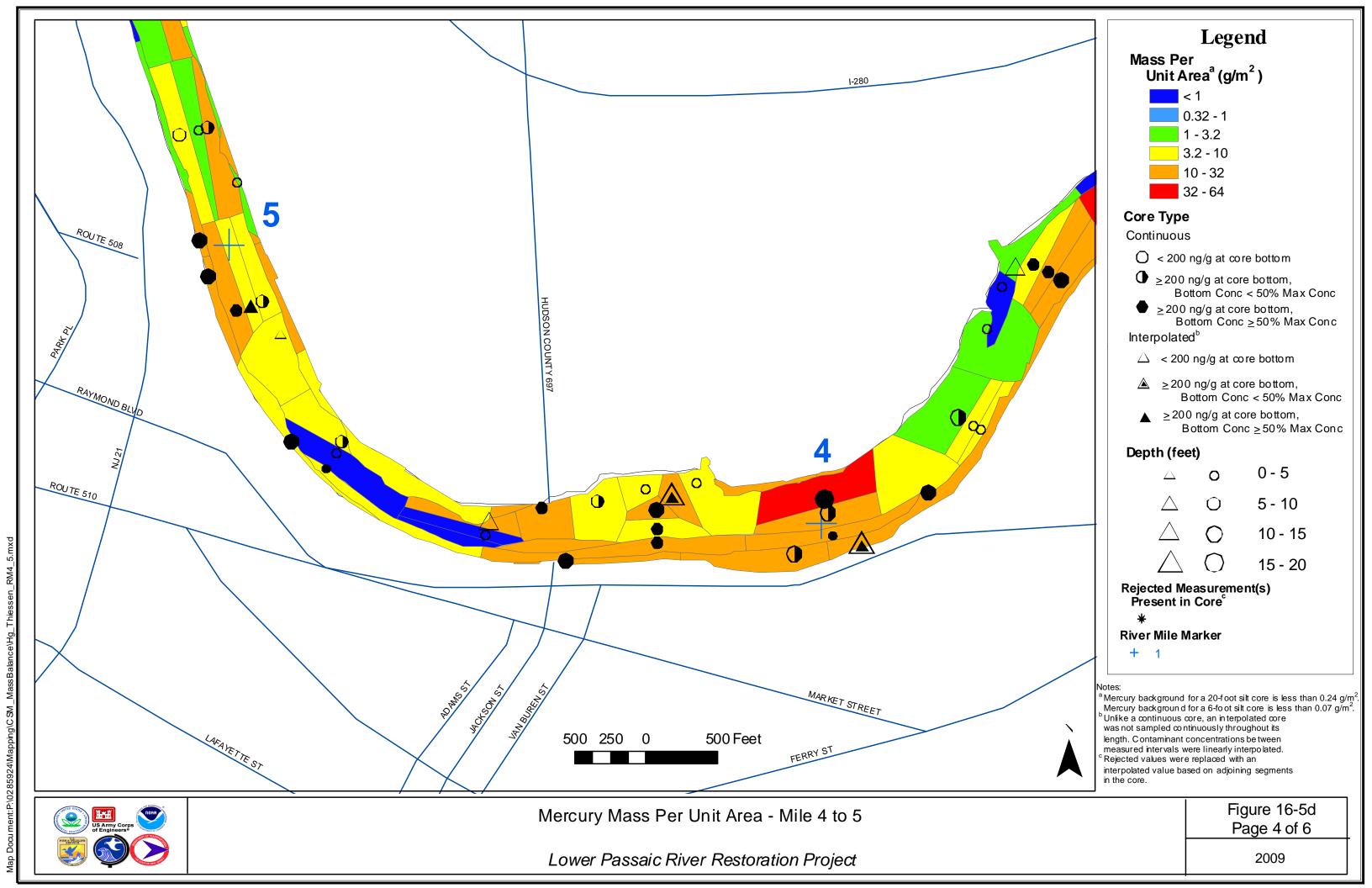


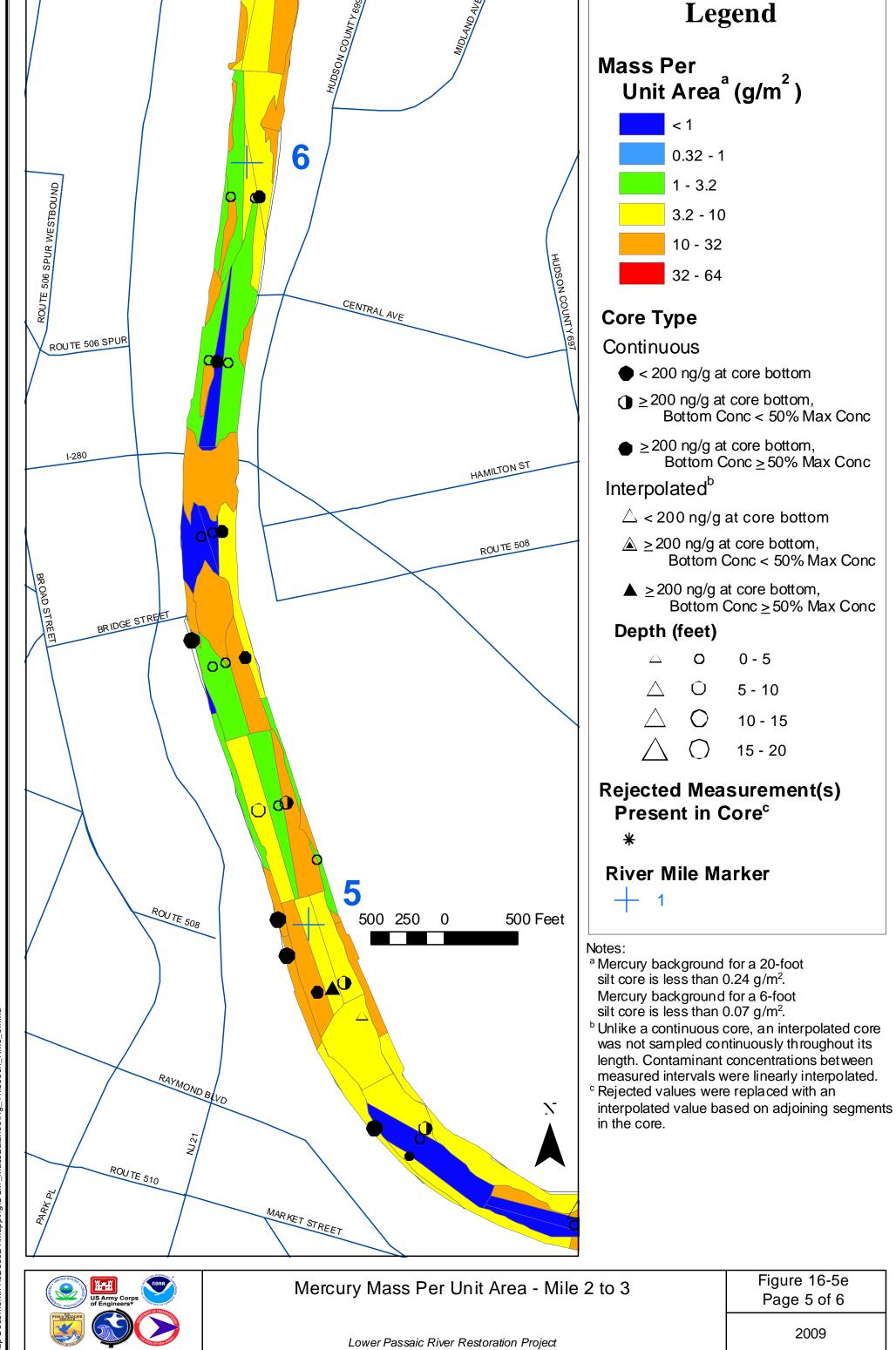
Lower Passaic River Restoration Project

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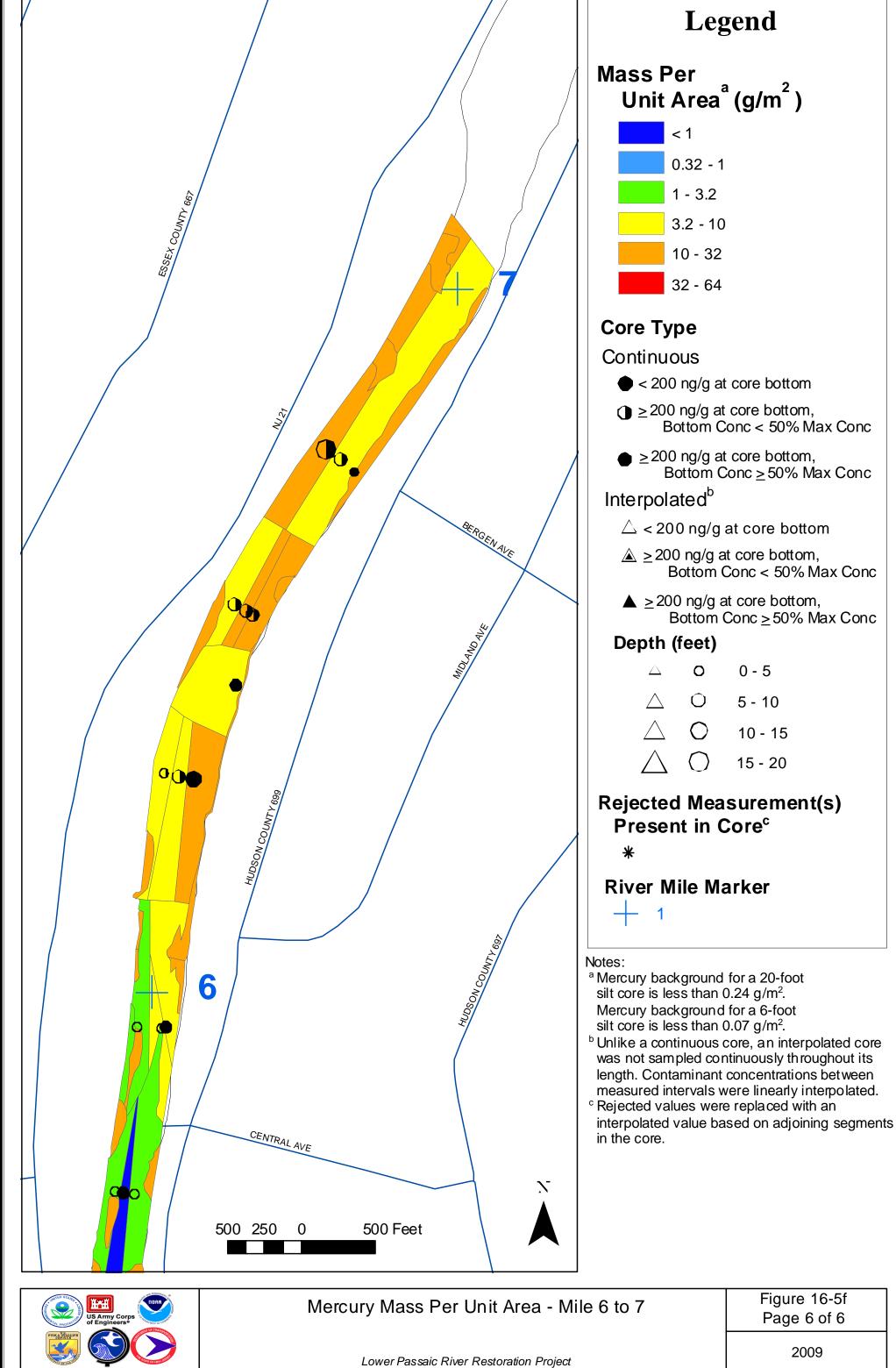




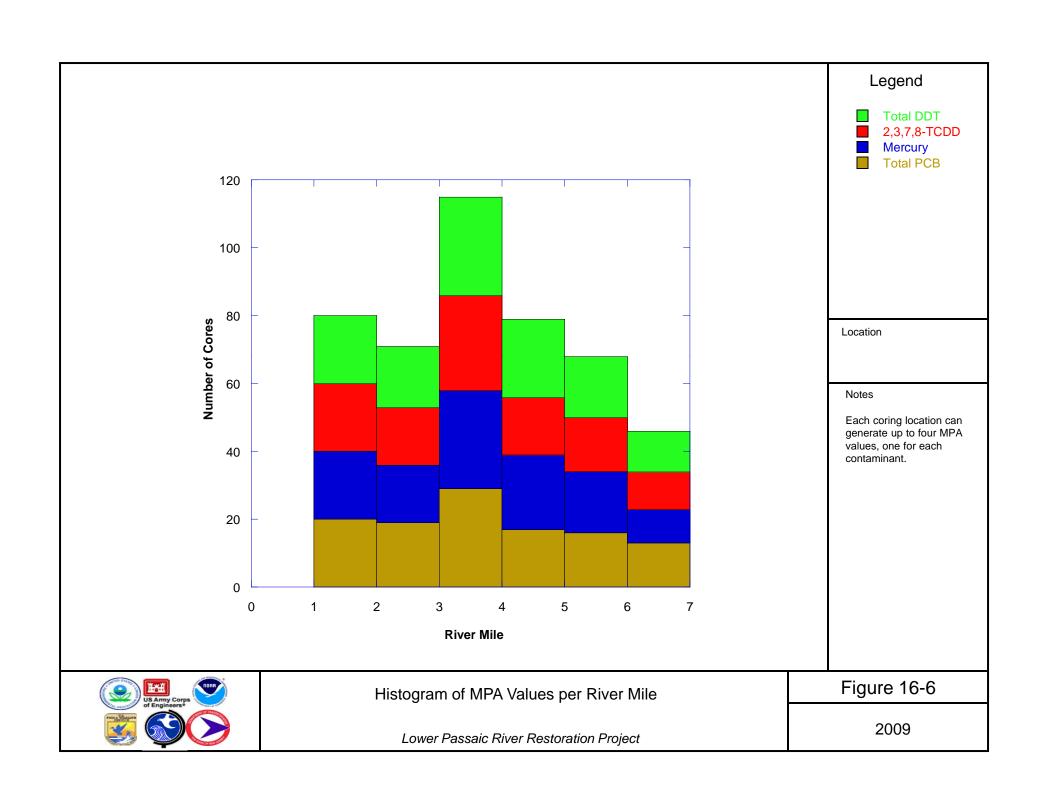


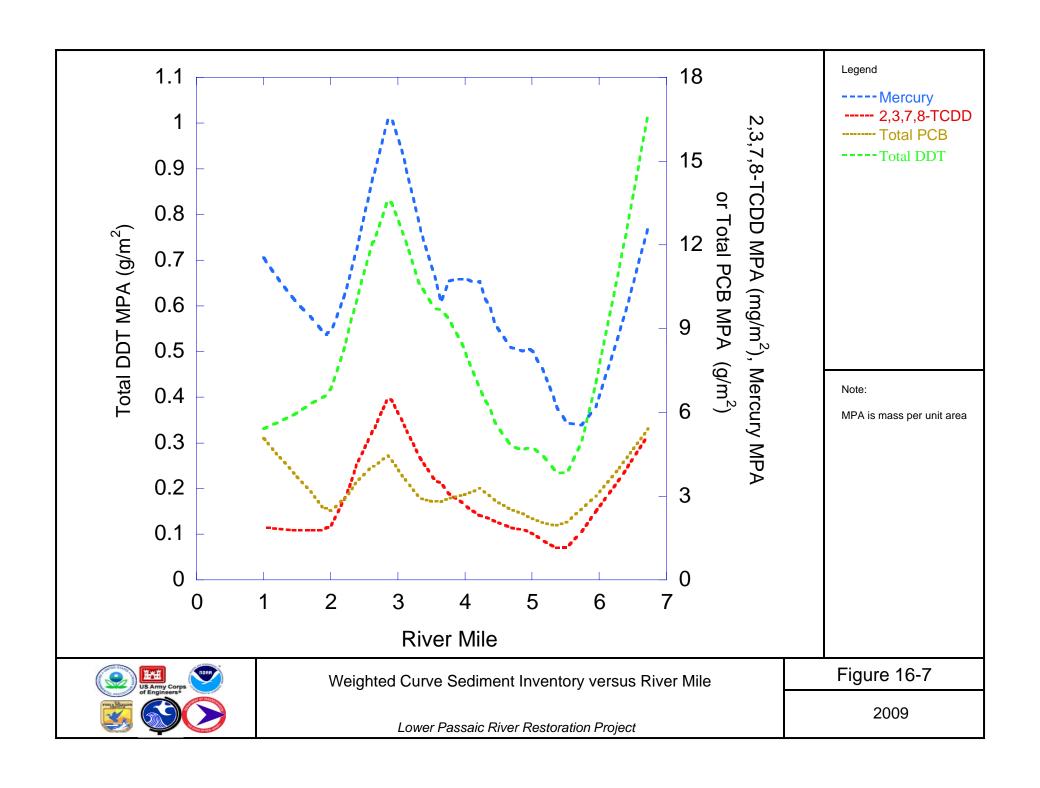


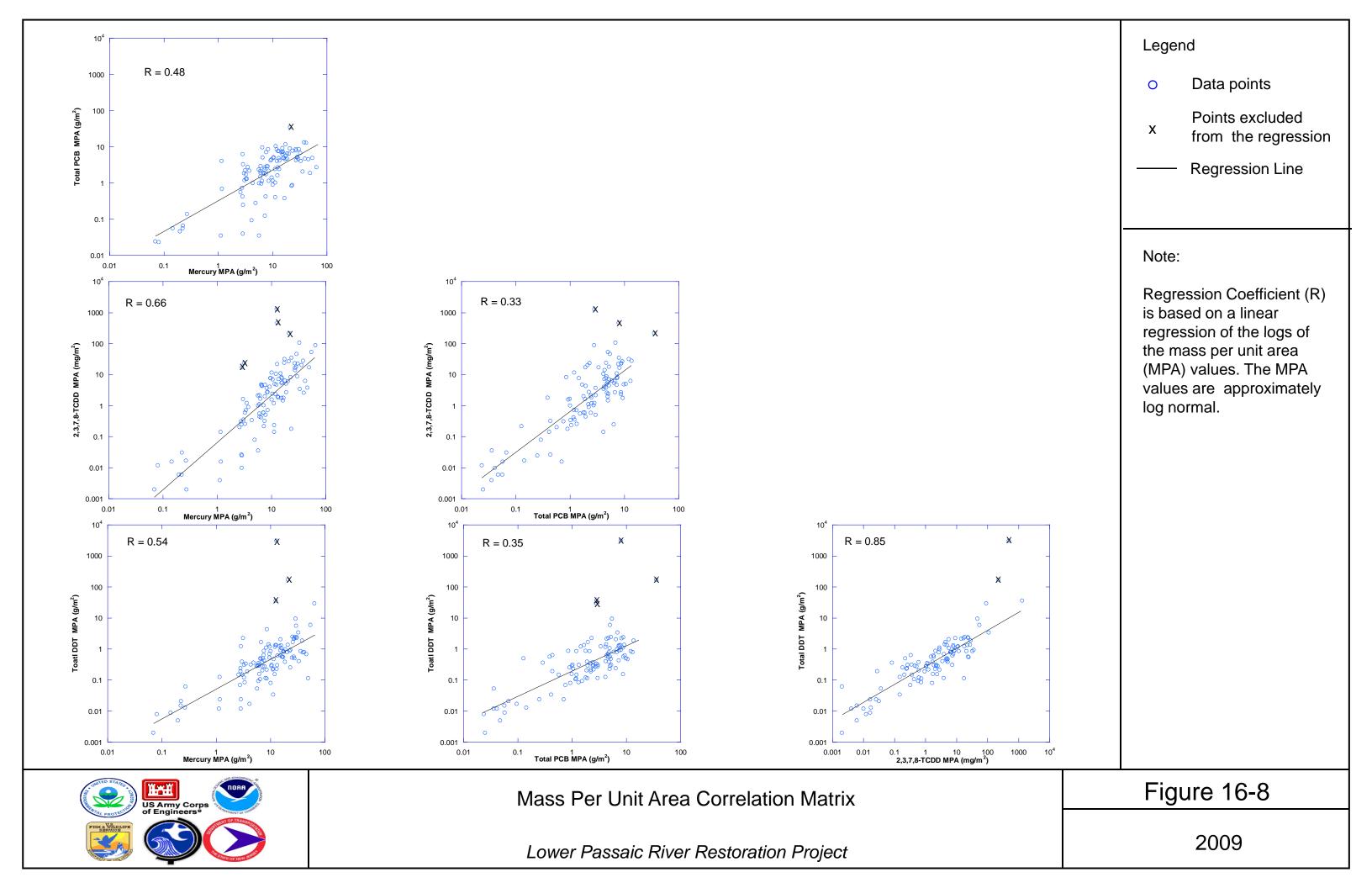
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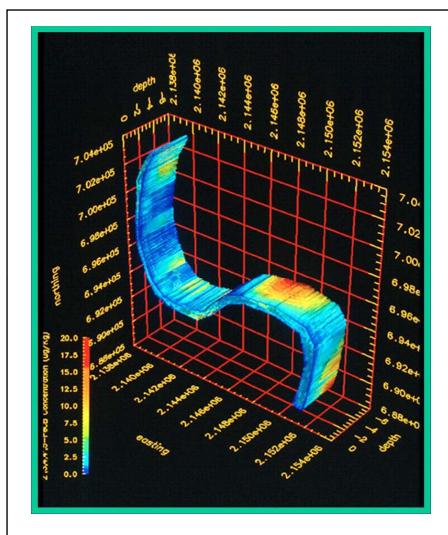


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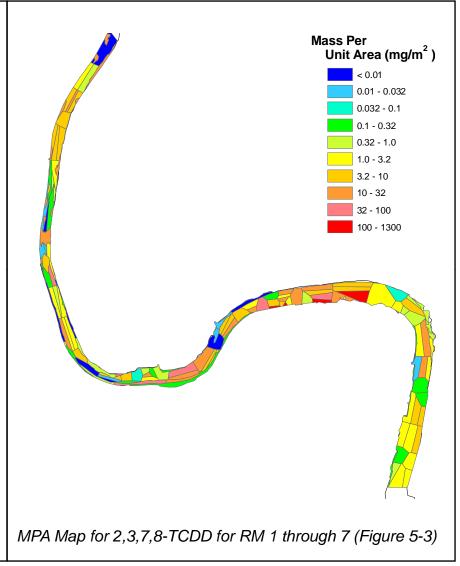








3-Dimensional Distribution taken from Ma et al. (1998)



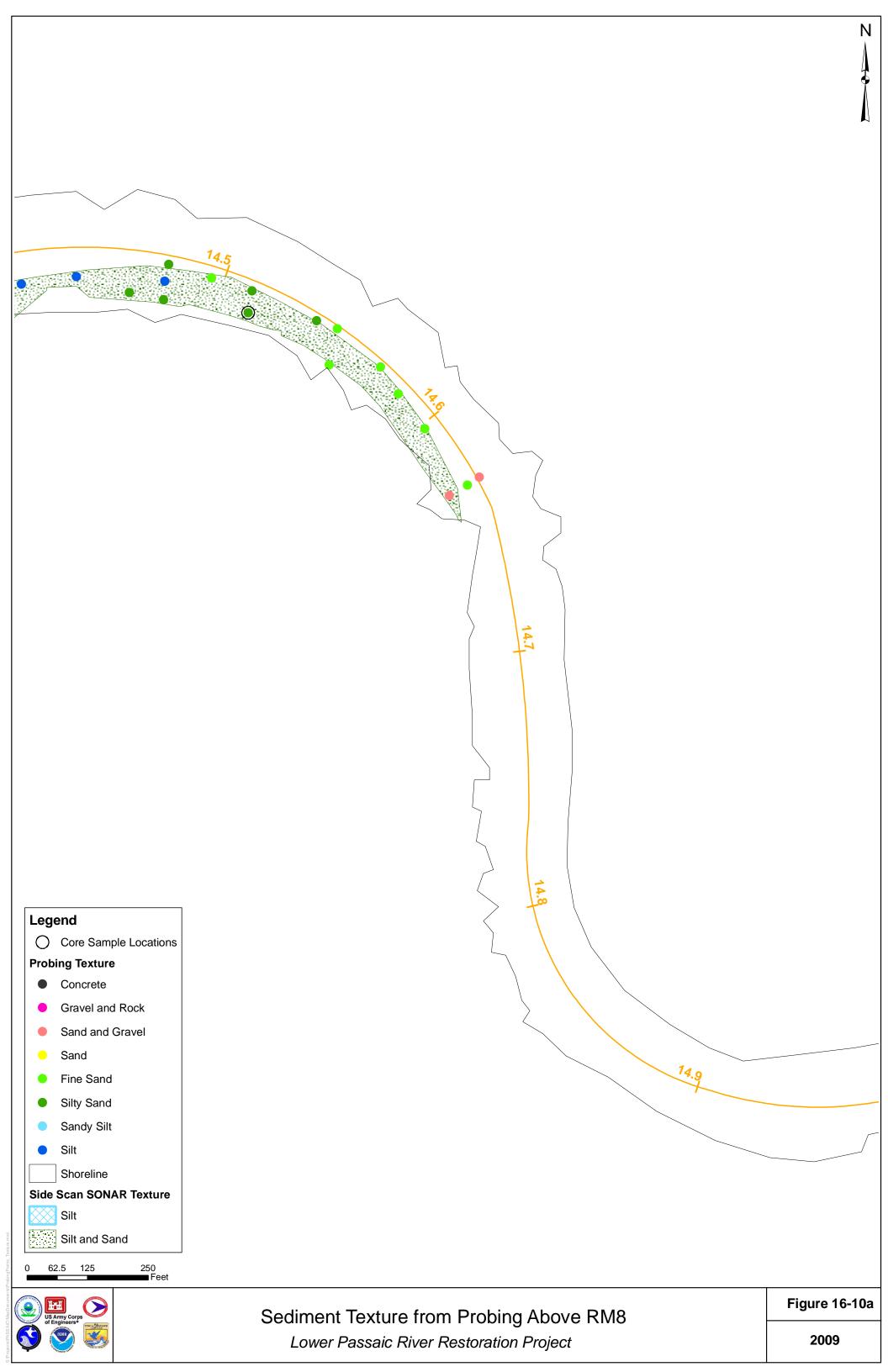


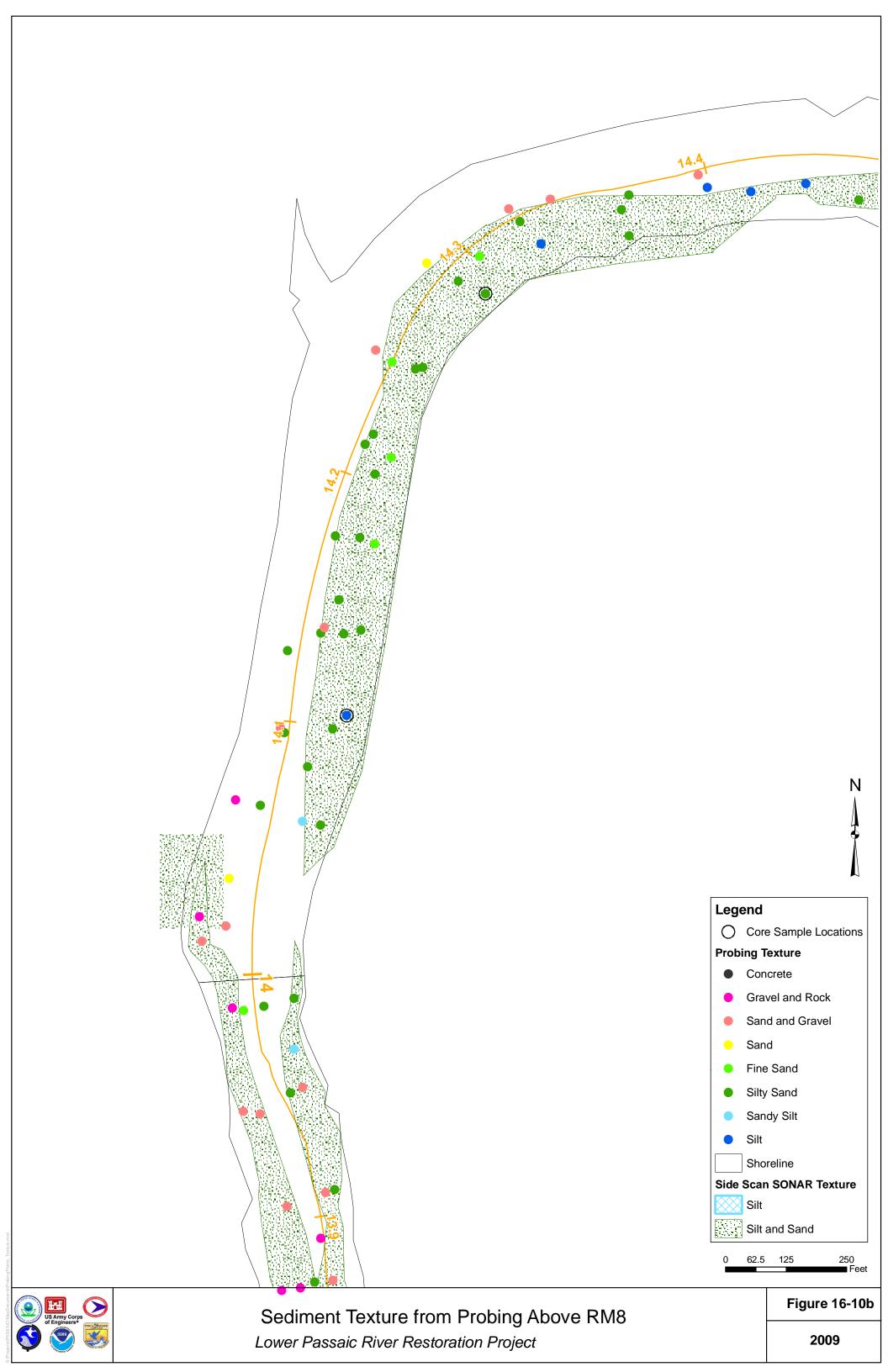
Comparison of 2,3,7,8-TCDD Spatial Extent

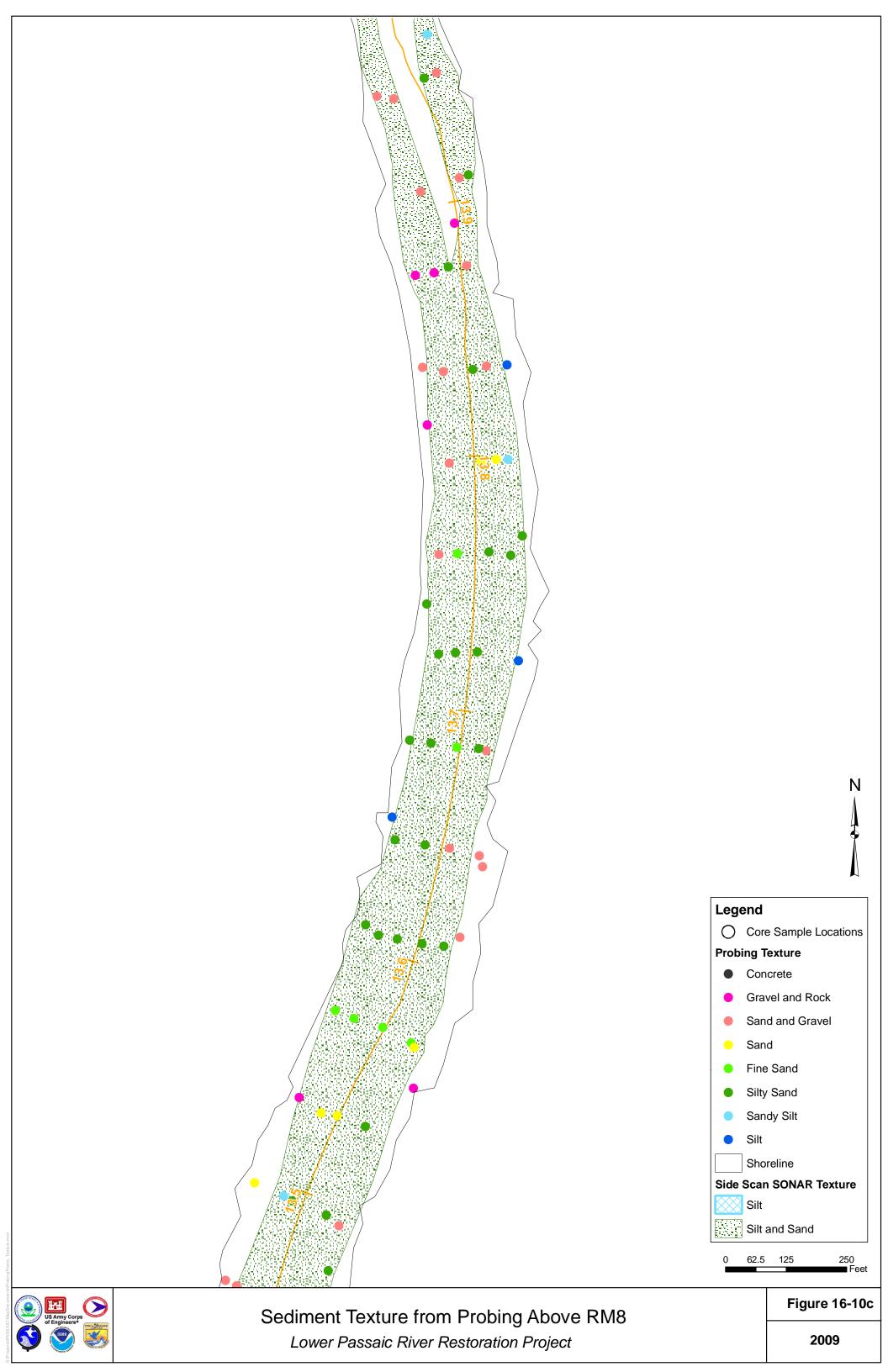
Figure 16-9

2009

Lower Passaic River Restoration Project

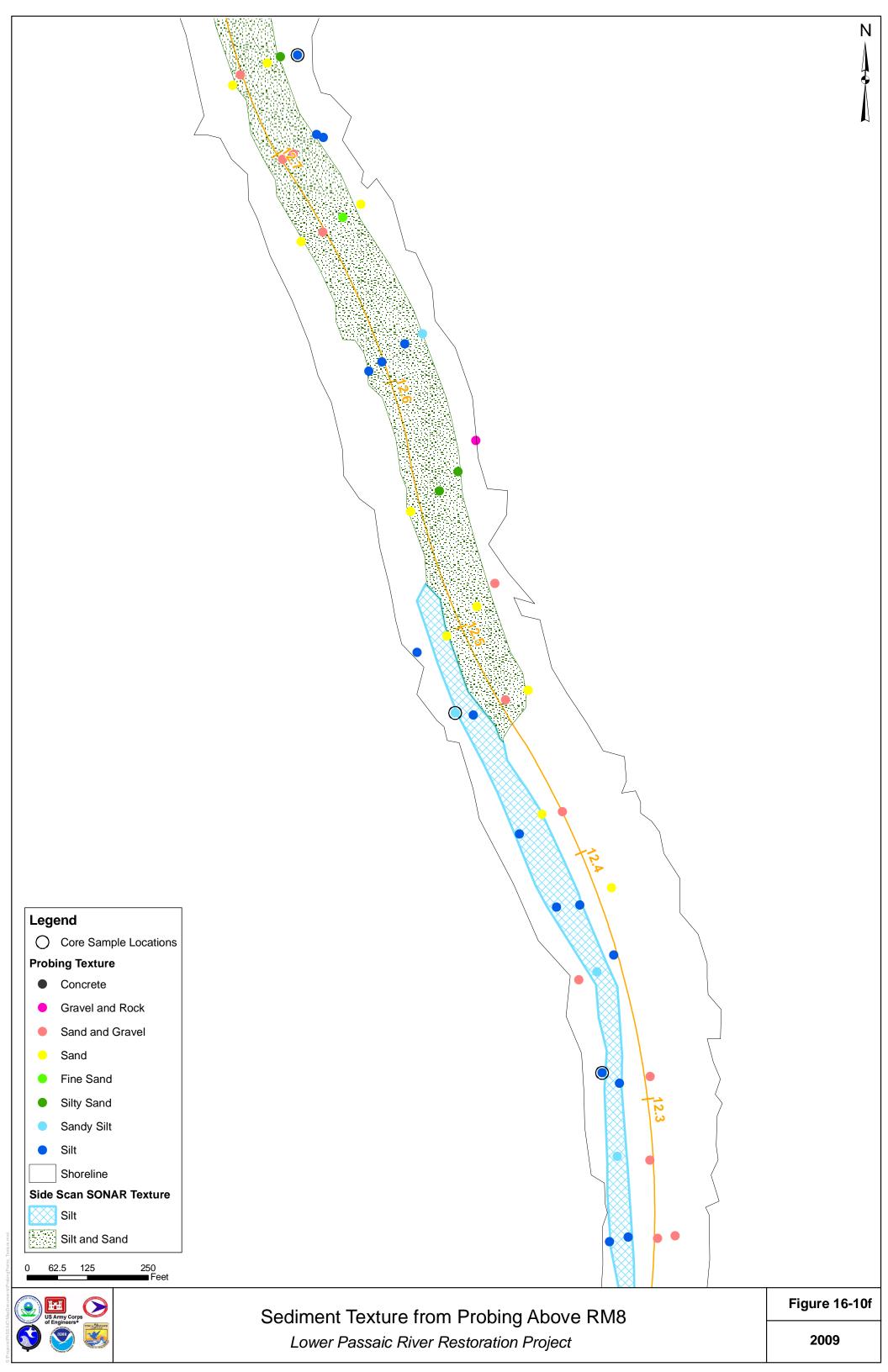


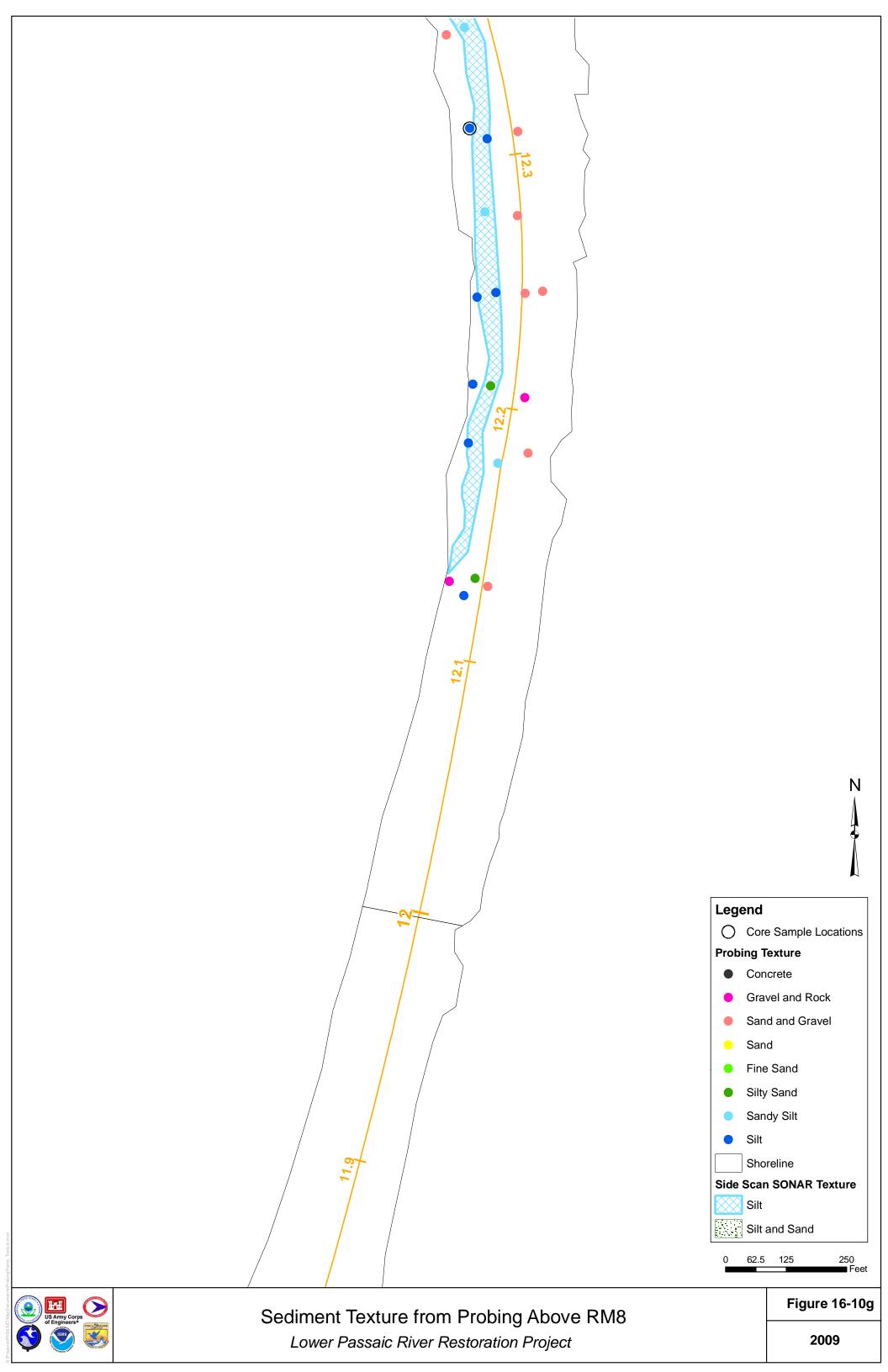


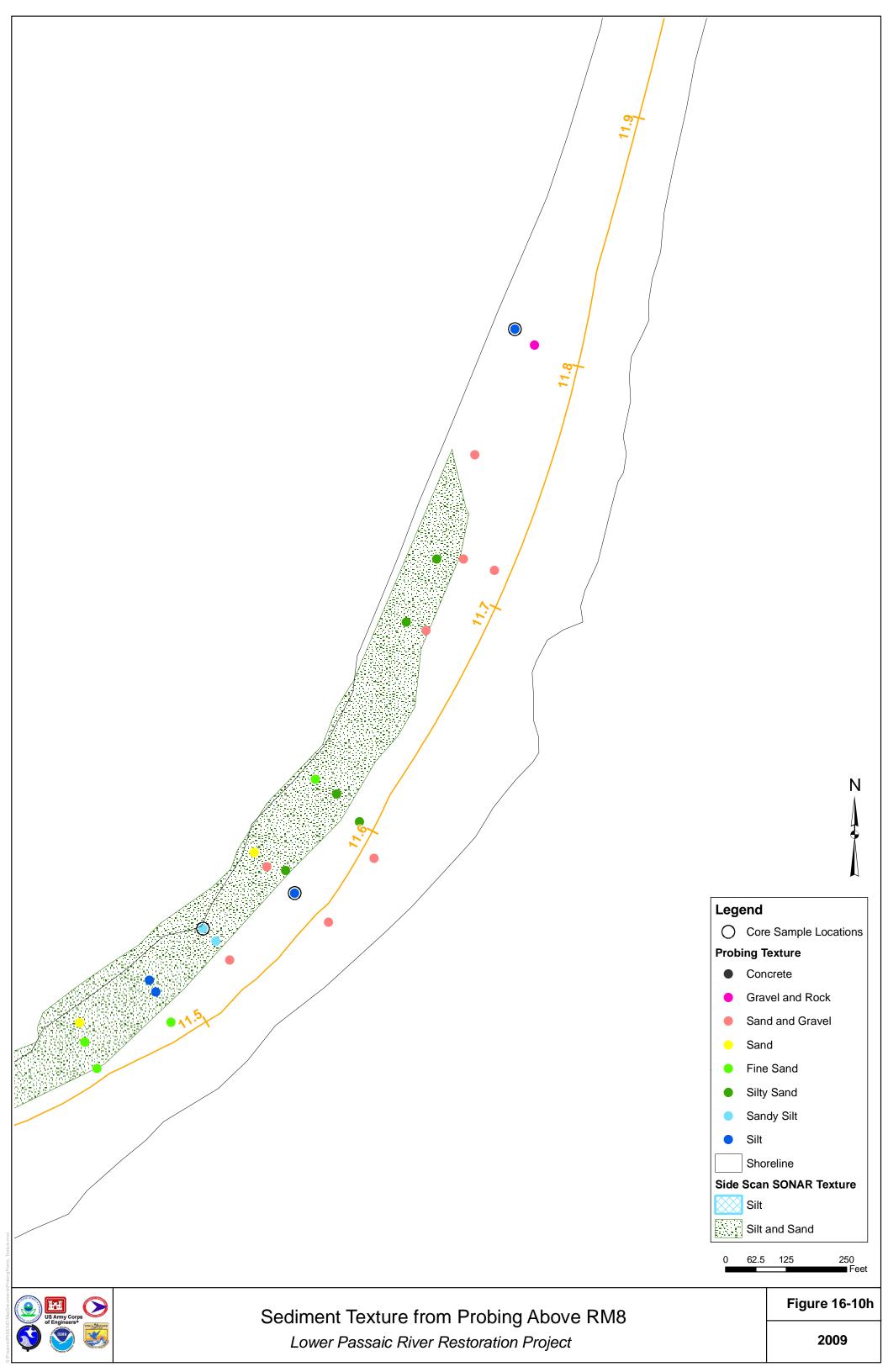


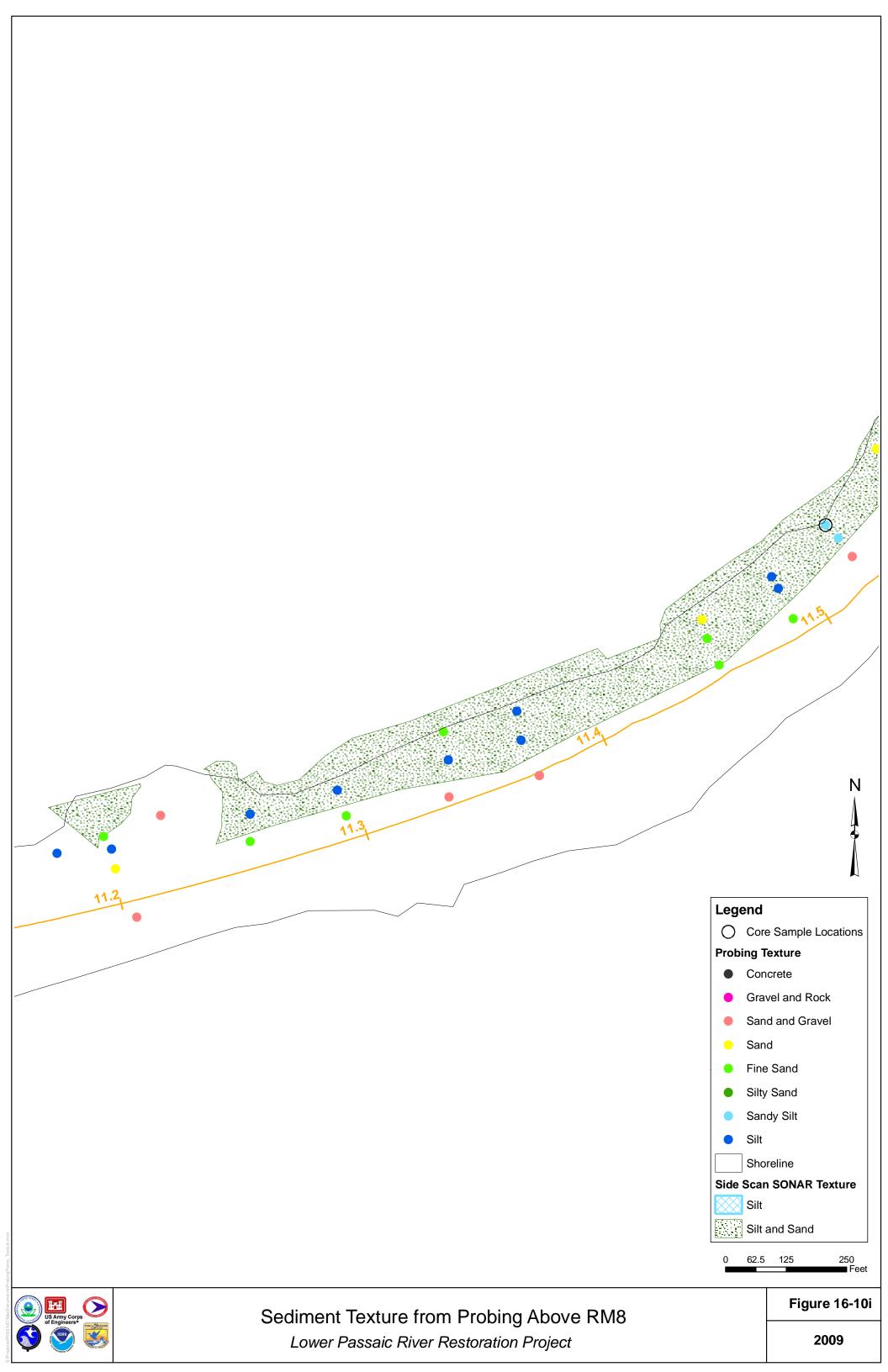


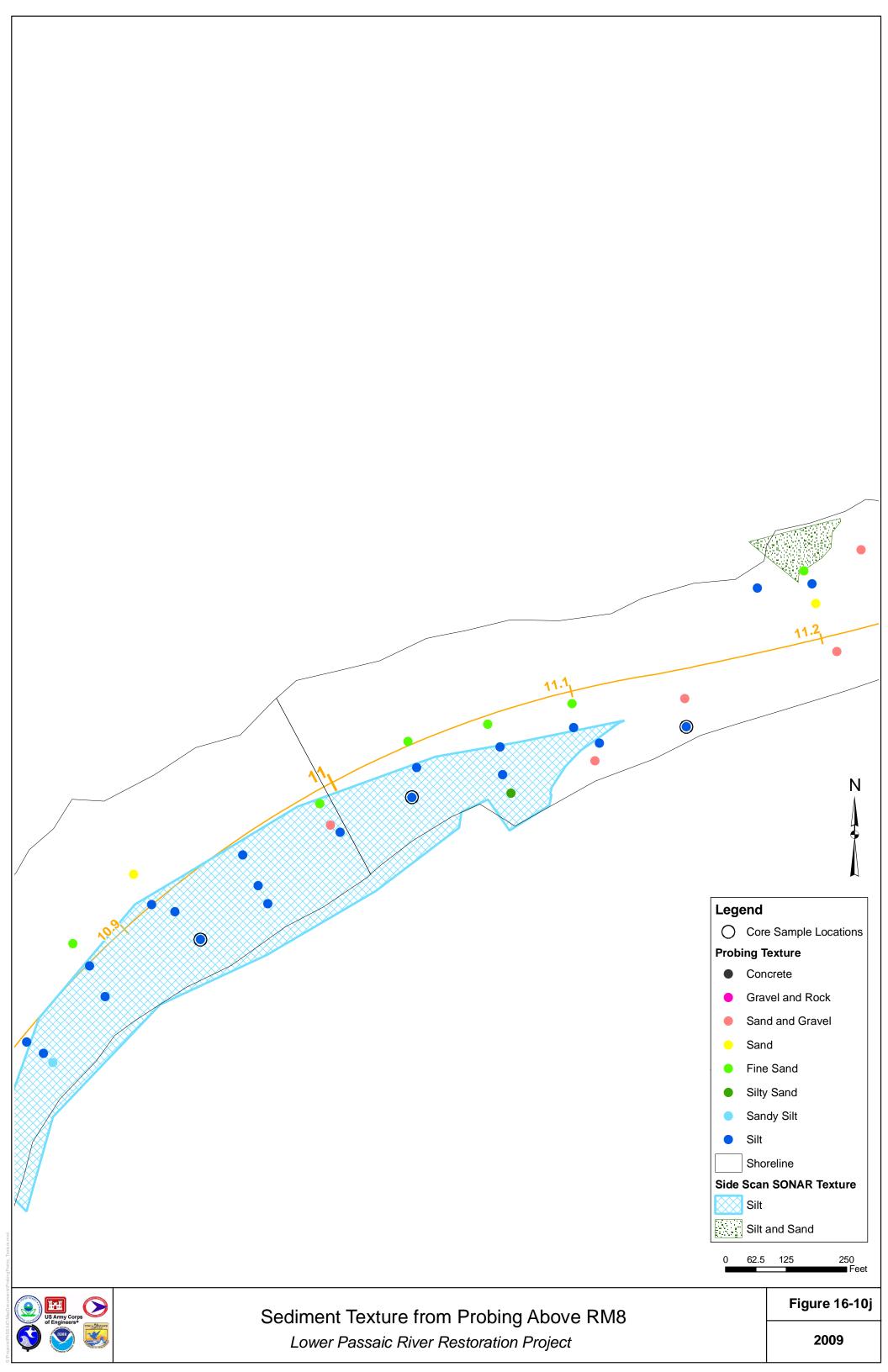


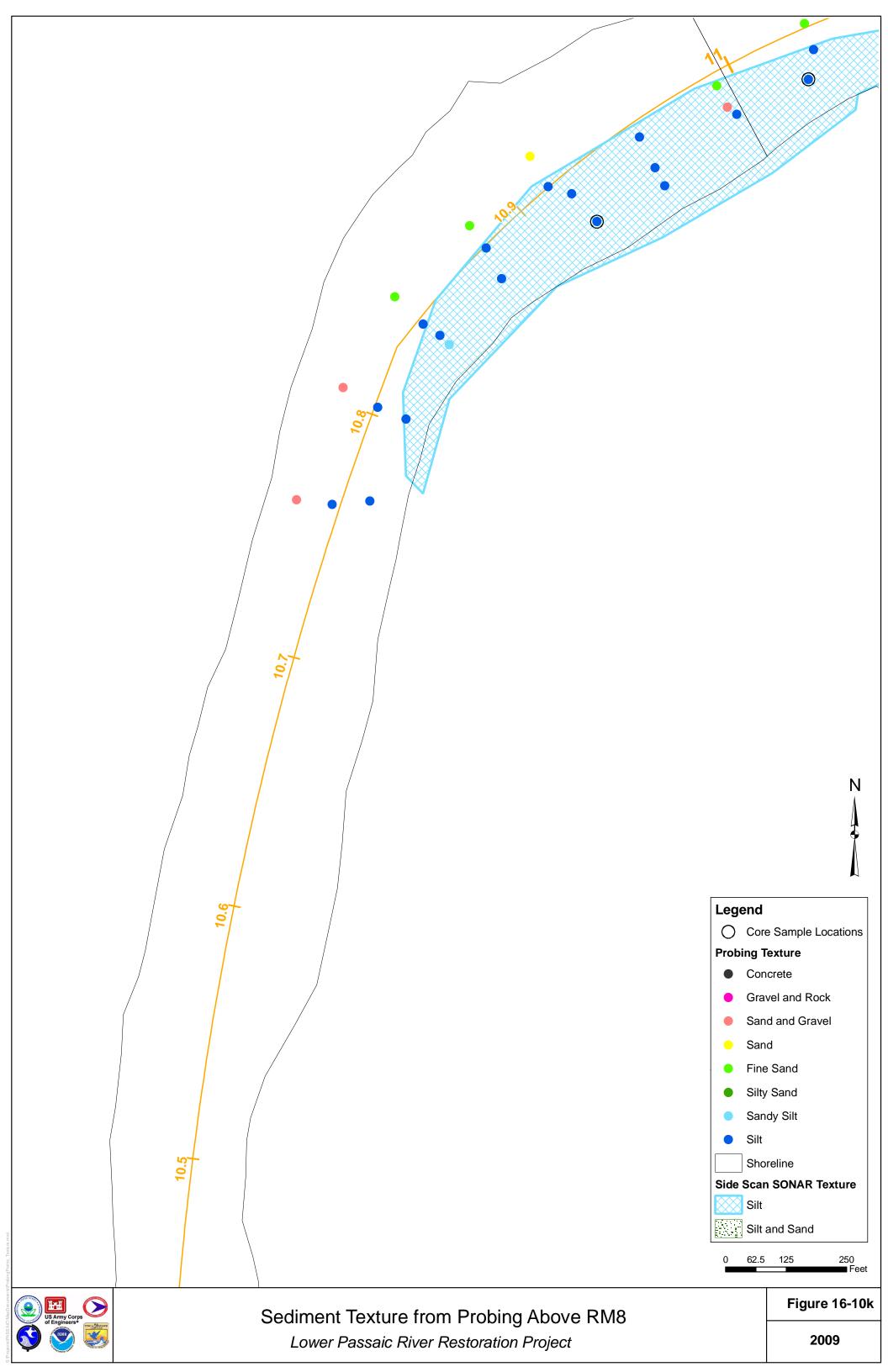


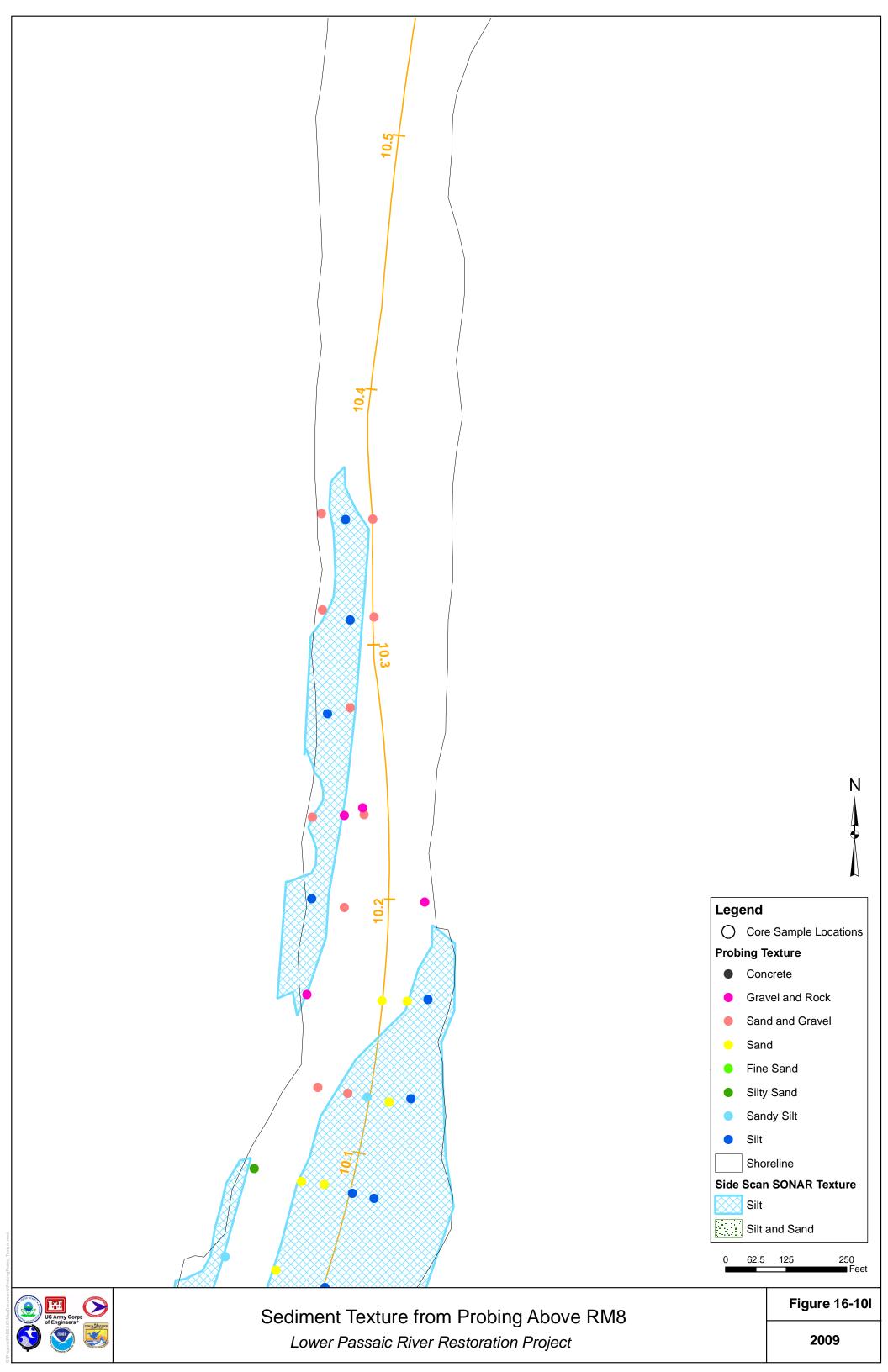




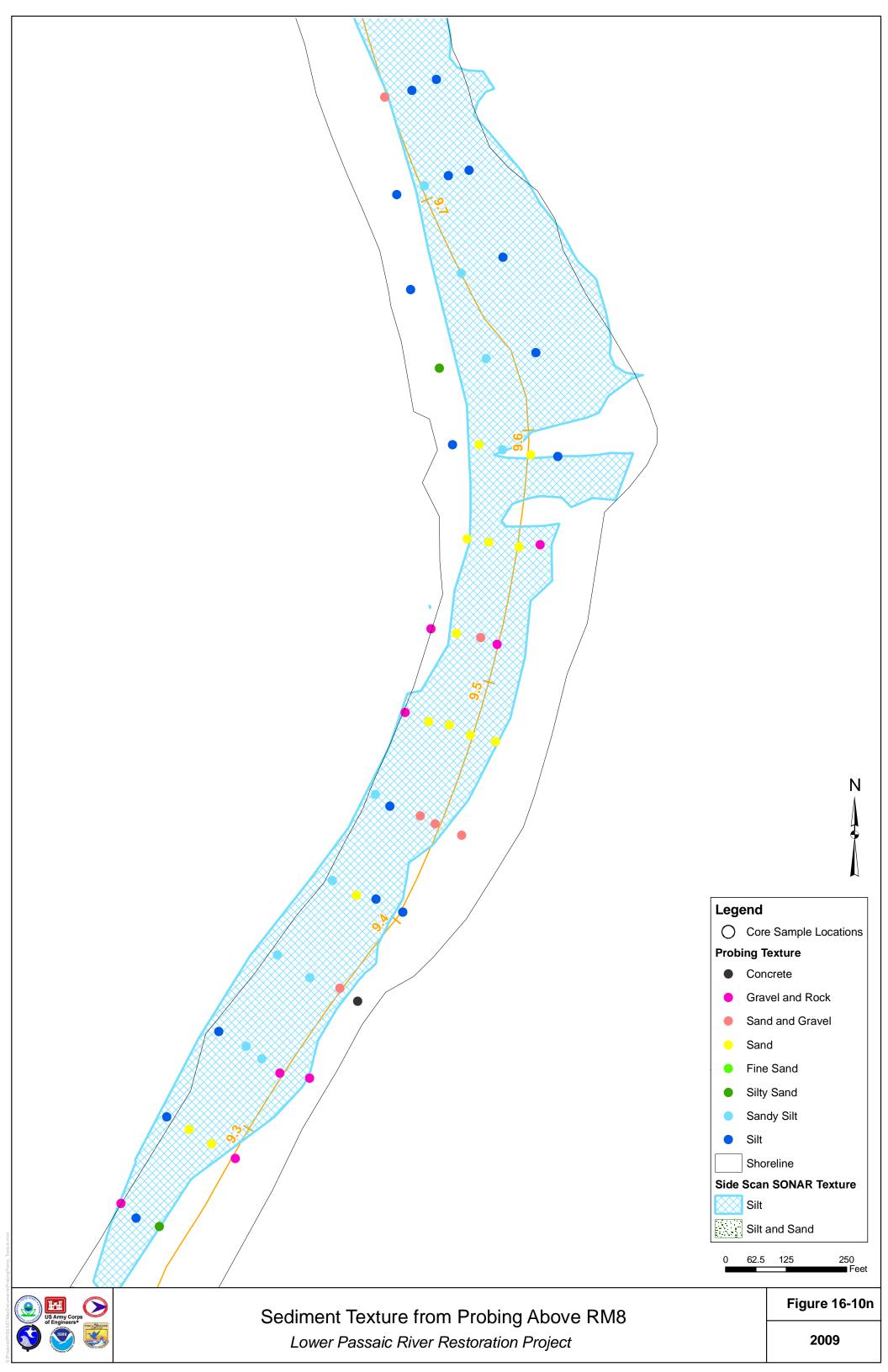


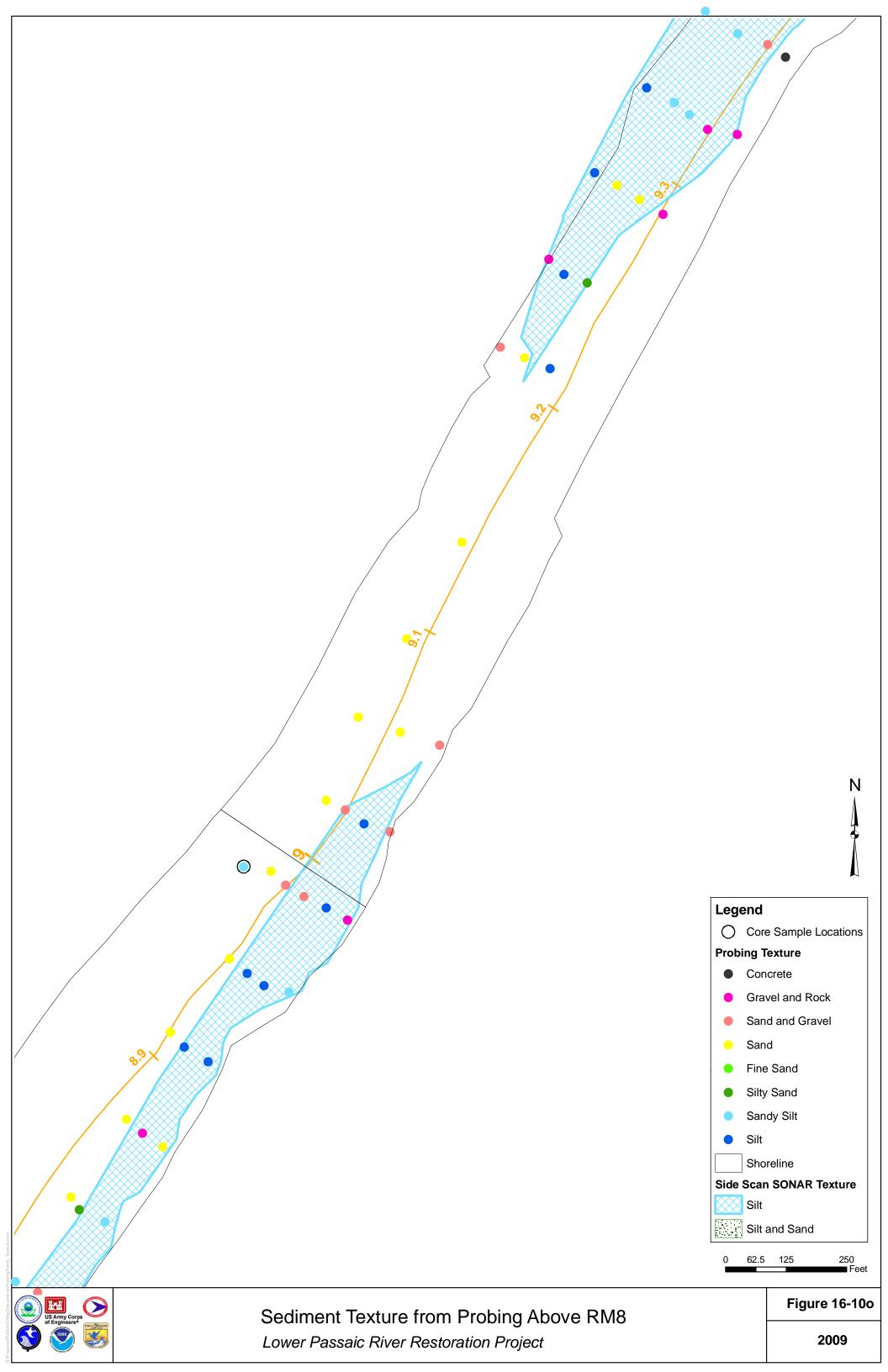


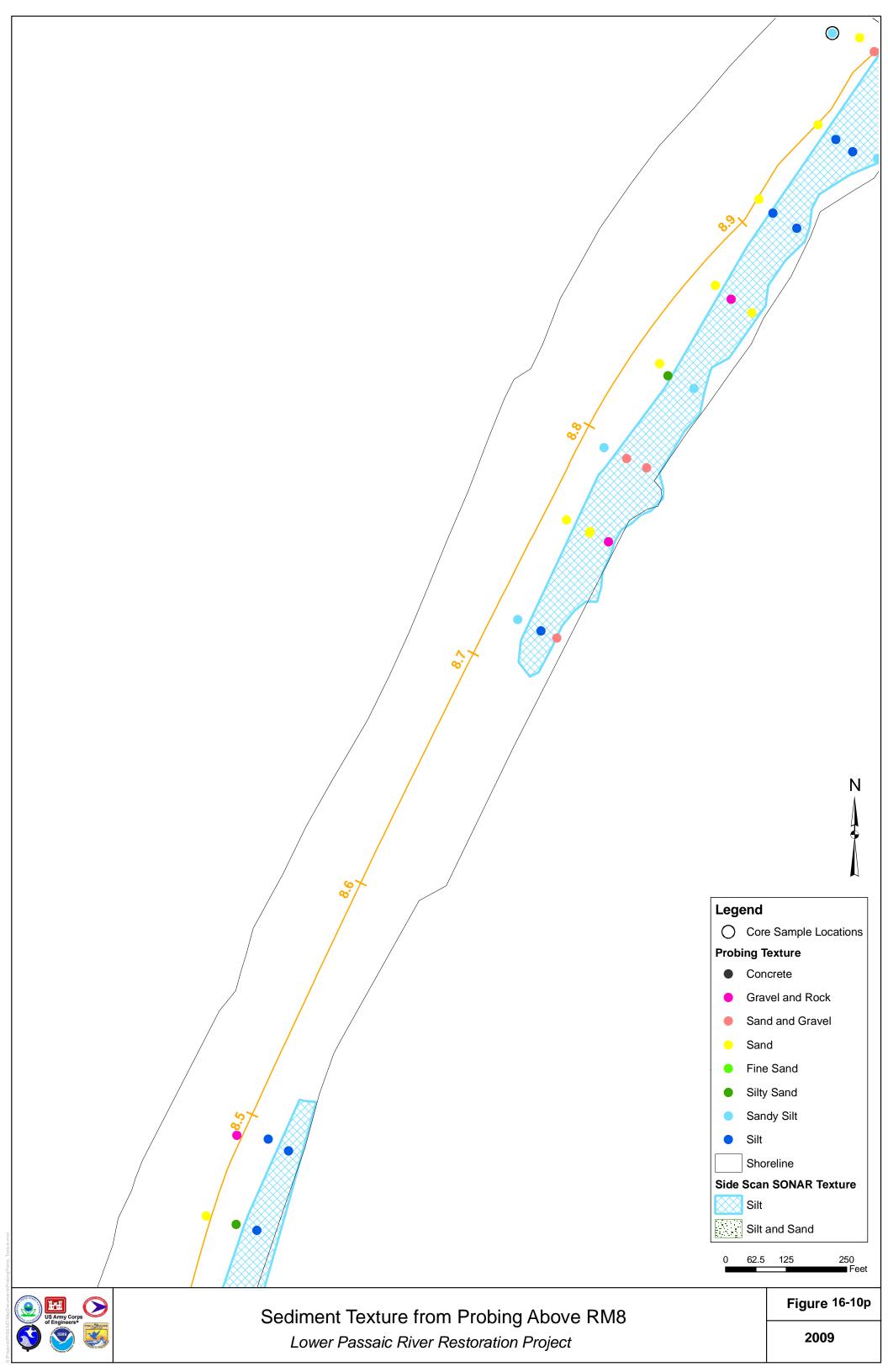




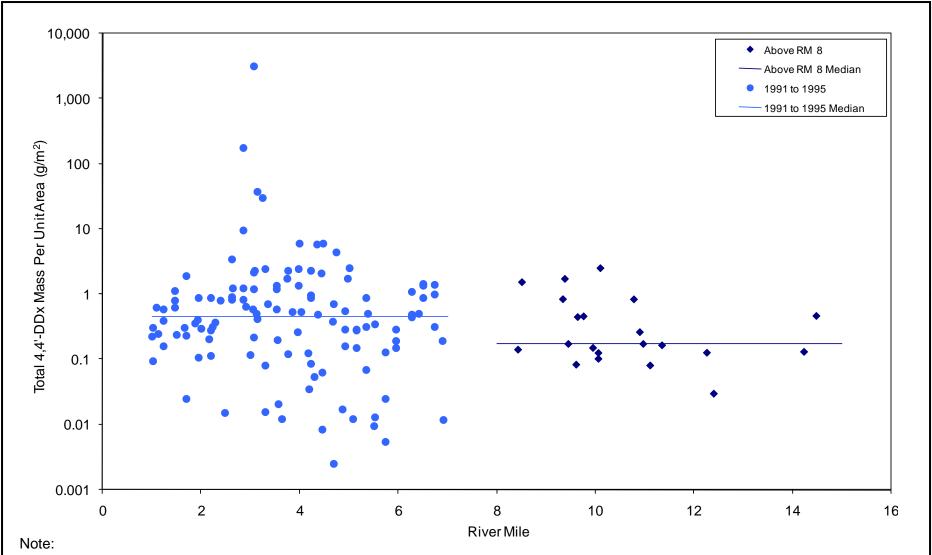










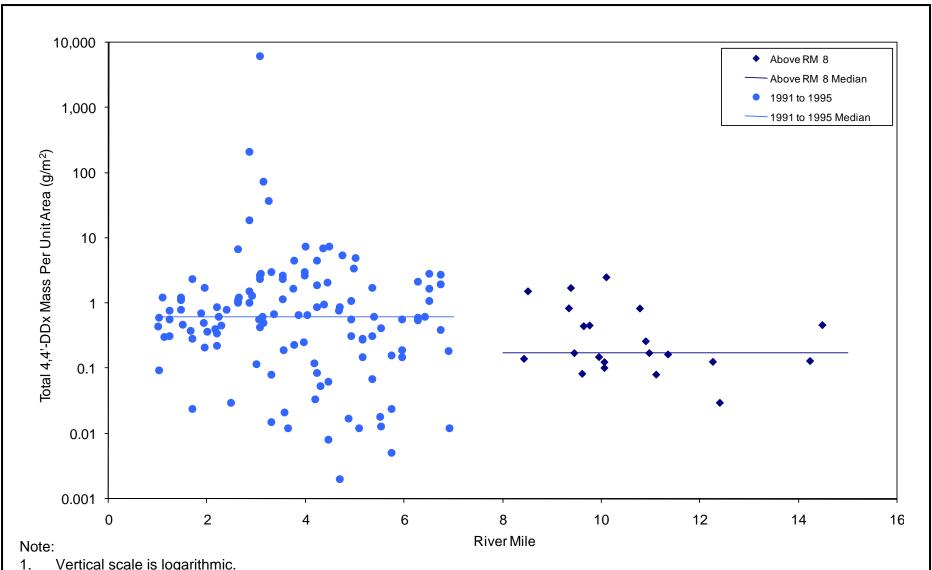


- 1. Vertical scale is logarithmic.
- 2. Incomplete cores from 1991 to 1995 were not extrapolated and thus provide a minimum inventory estimate. Approximately 66 percent of 1991-1995 cores were incomplete.



Total 4,4'-DDx MPA versus River Mile
(As Measured)
2008, RM 8 to 15 and 1991-1995, RM 1 to 7
Lower Passaic River Restoration Project

Figure 16-11a 2009



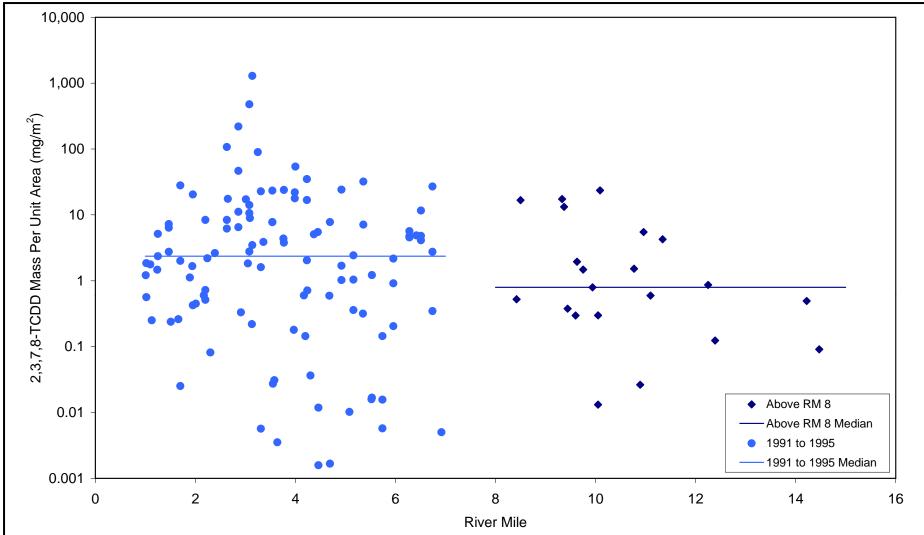
- Vertical scale is logarithmic.
- Incomplete cores from 1991 to 1995 were extrapolated to provide a complete inventory estimate. Approximately 66 percent of 1991-1995 cores were incomplete.



Total 4,4'-DDx MPA versus River Mile (With Extrapolated Cores) 2008, RM 8 to 15 and 1991-1995, RM 1 to 7 Lower Passaic River Restoration Project

Figure 16-11b

2009

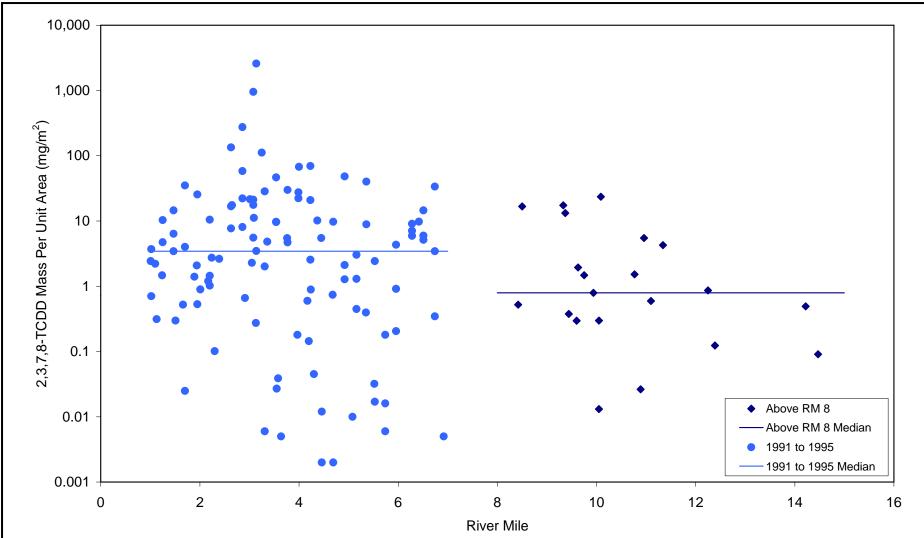


- 1. Vertical scale is logarithmic.
- 2. Incomplete cores from 1991 to 1995 were not extrapolated and thus provide a minimum inventory estimate. Approximately 79 percent of 1991-1995 cores were incomplete.



2,3,7,8-TCDD MPA versus River Mile
(As Measured)
2008, RM 8 to 15 and 1991-1995, RM 1 to 7
Lower Passaic River Restoration Project

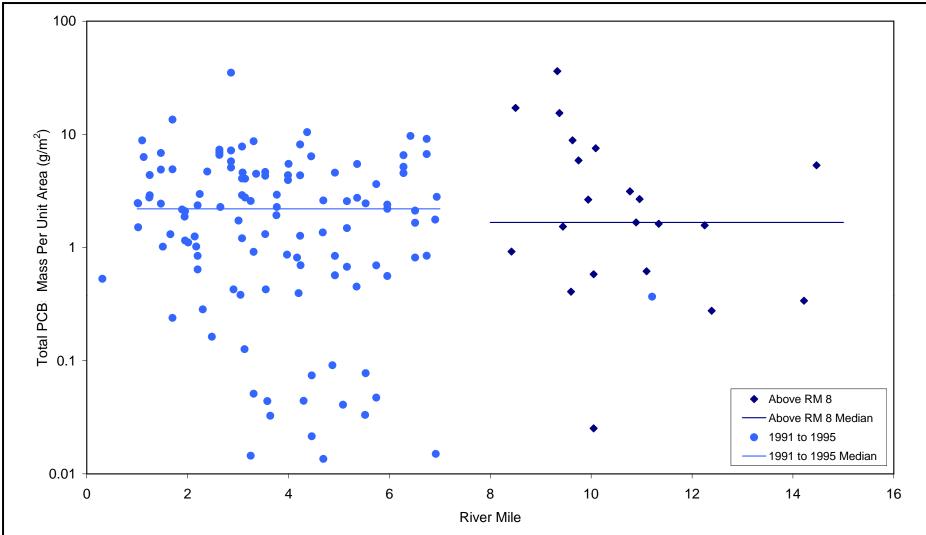
Figure 16-11c 2009



- 1. Vertical scale is logarithmic.
- 2. Incomplete cores from 1991 to 1995 were extrapolated to provide a complete inventory estimate. Approximately 79 percent of 1991-1995 cores were incomplete.



2,3,7,8-TCDD MPA versus River Mile (With Extrapolated Cores) 2008, RM 8 to 15 and 1991-1995, RM 1 to 7 Lower Passaic River Restoration Project Figure 16-11d 2009

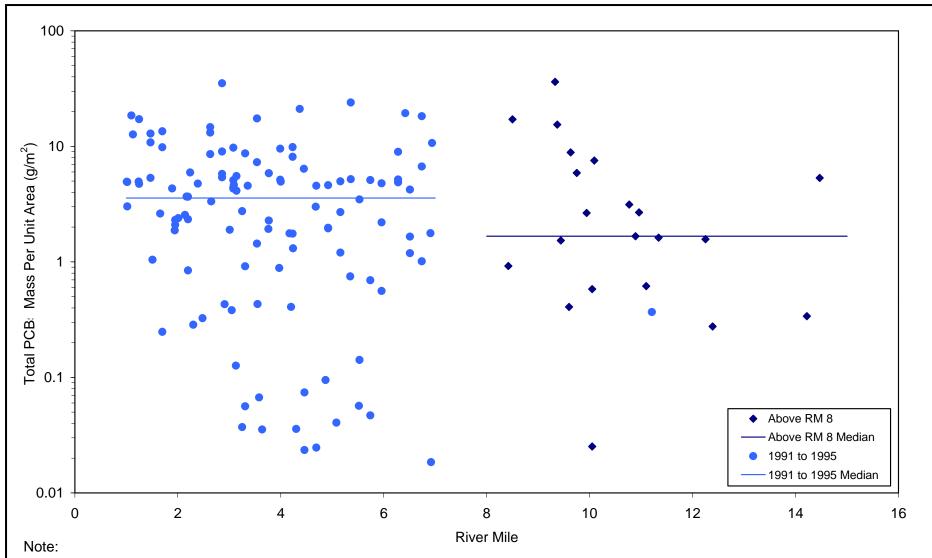


- 1. Vertical scale is logarithmic.
- 2. Incomplete cores from 1991 to 1995 were not extrapolated and thus provide a minimum inventory estimate. Approximately 44 percent of 1991-1995 cores were incomplete.



Total PCB MPA versus River Mile
(As Measured)
2008, RM 8 to 15 and 1991-1995, RM 1 to 7
Lower Passaic River Restoration Project

Figure 16-11e 2009

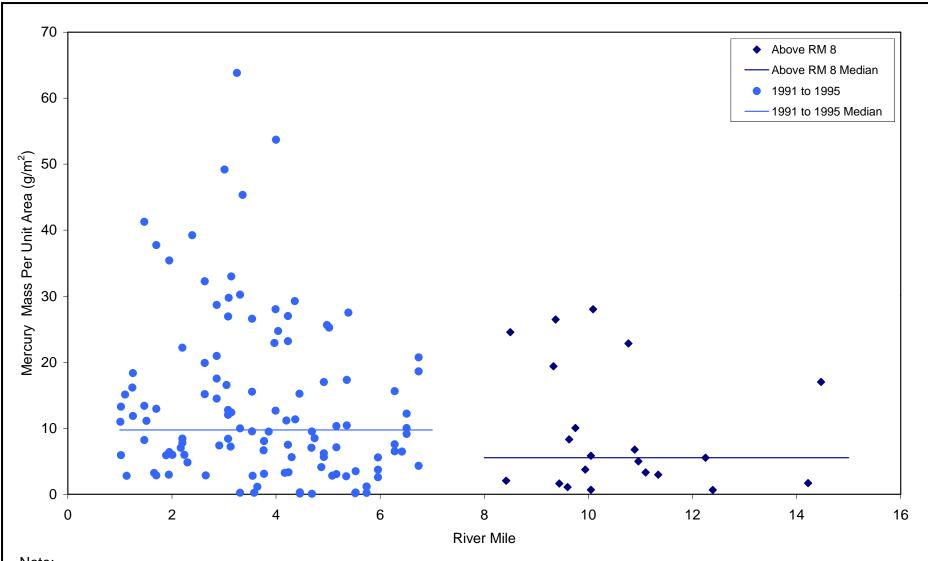


- 1. Vertical scale is logarithmic.
- 2. Incomplete cores from 1991 to 1995 were extrapolated to provide a complete inventory estimate. Approximately 44 percent of 1991-1995 cores were incomplete.



Total PCB MPA versus River Mile (With Extrapolated Cores) 2008, RM 8 to 15 and 1991-1995, RM 1 to 7 Lower Passaic River Restoration Project Figure 16-11f

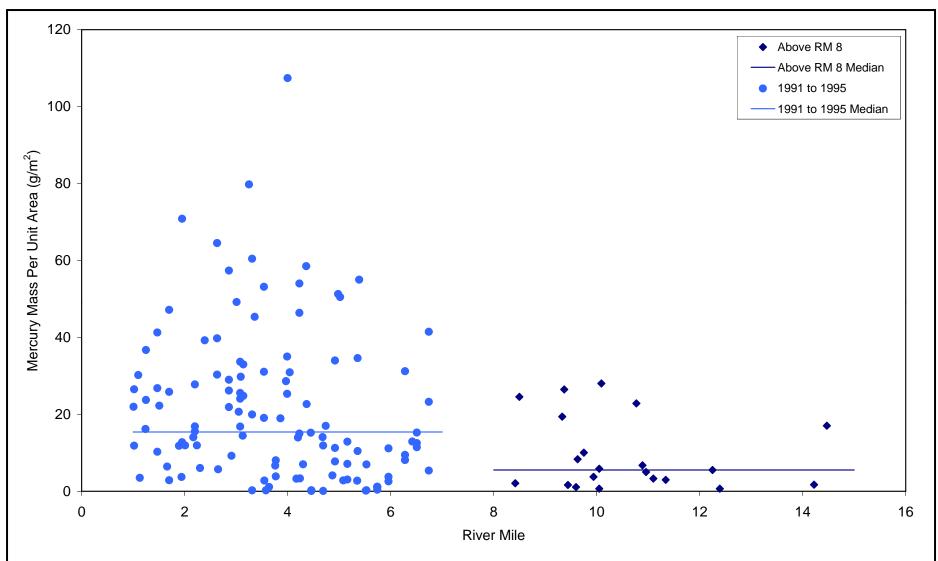
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1. Incomplete cores from 1991 to 1995 were not extrapolated and thus provide a minimum inventory estimate. Approximately 72 percent of 1991-1995 cores were incomplete.



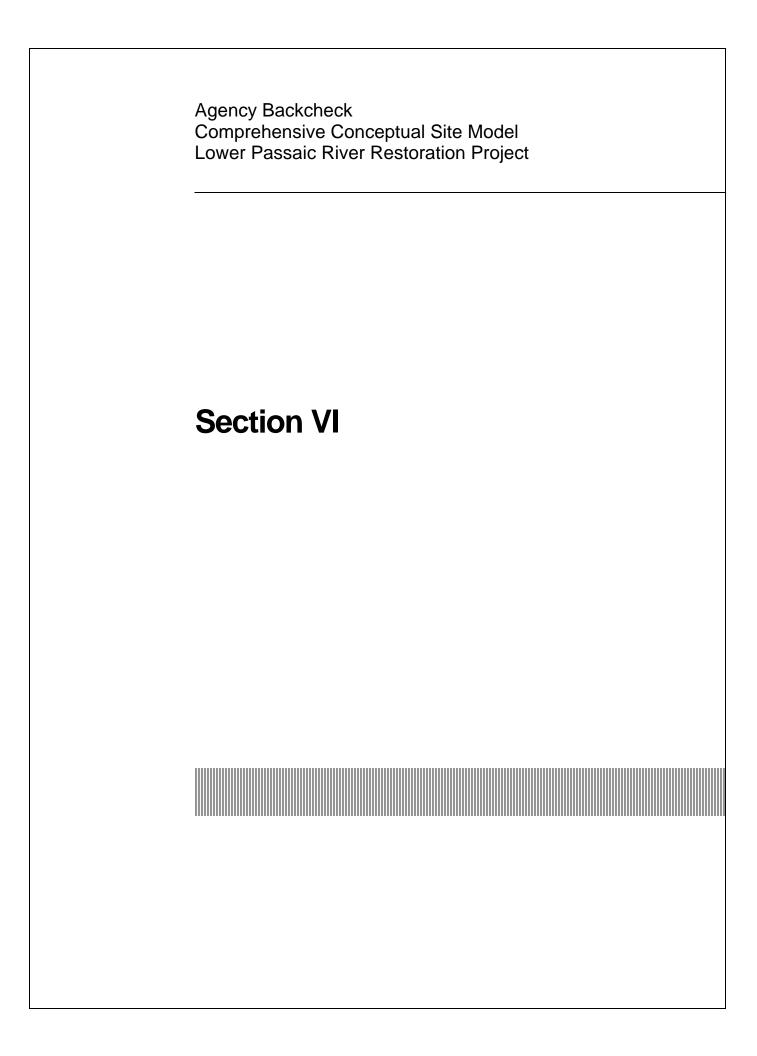
Mercury MPA versus River Mile (As Measured) 2008, RM 8 to 15 and 1991-1995, RM 1 to 7 Lower Passaic River Restoration Project Figure 16-11g 2009



1. Incomplete cores from 1991 to 1995 were extrapolated to provide a complete inventory estimate. Approximately 72 percent of 1991-1995 cores were incomplete.



Mercury MPA versus River Mile (With Extrapolated Cores) 2008, RM 8 to 15 and 1991-1995, RM 1 to 7 Lower Passaic River Restoration Project Figure 16-11h 2009

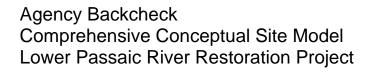




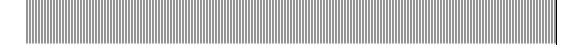
## **Chapter 17 Figures**

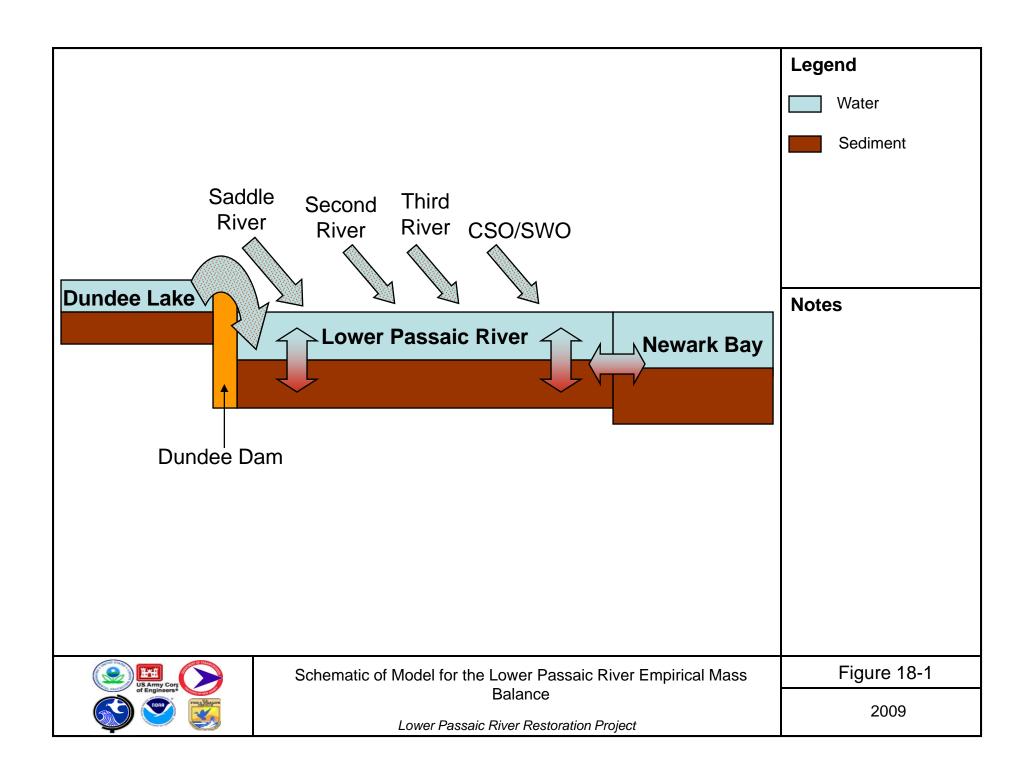
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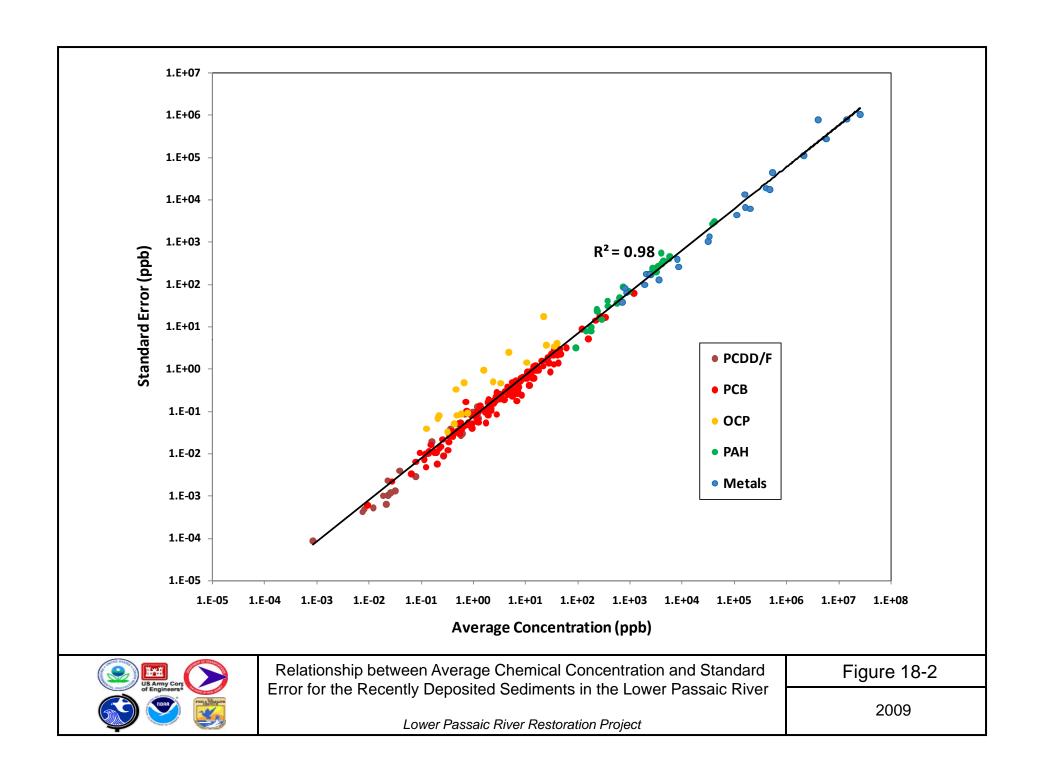


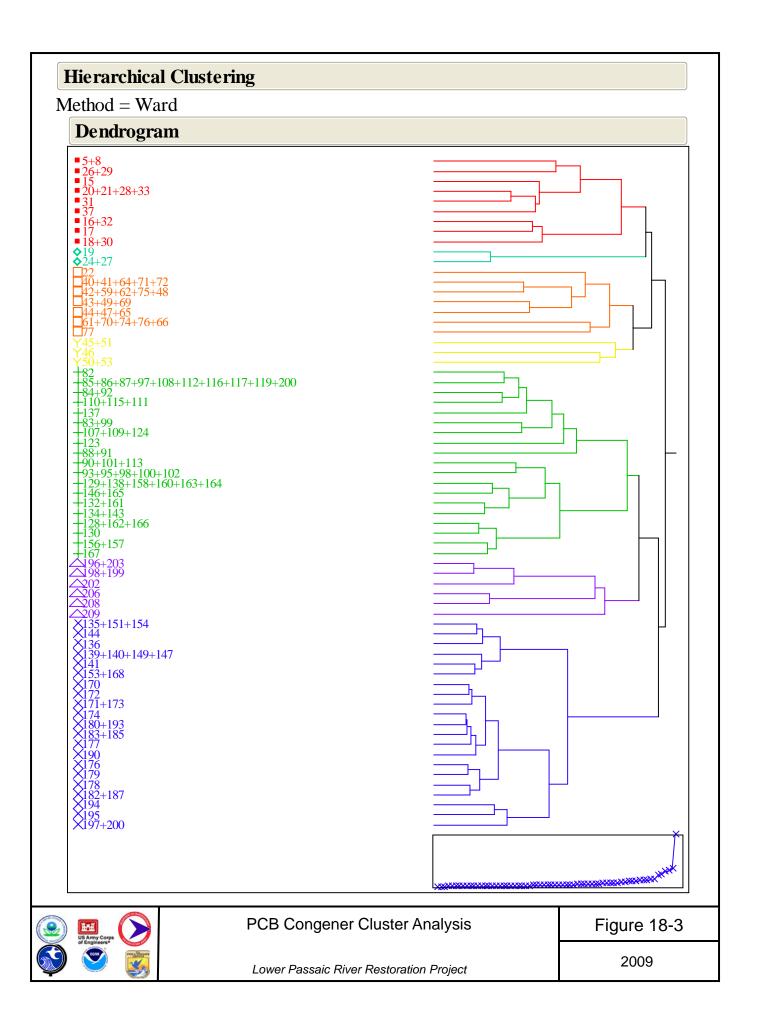


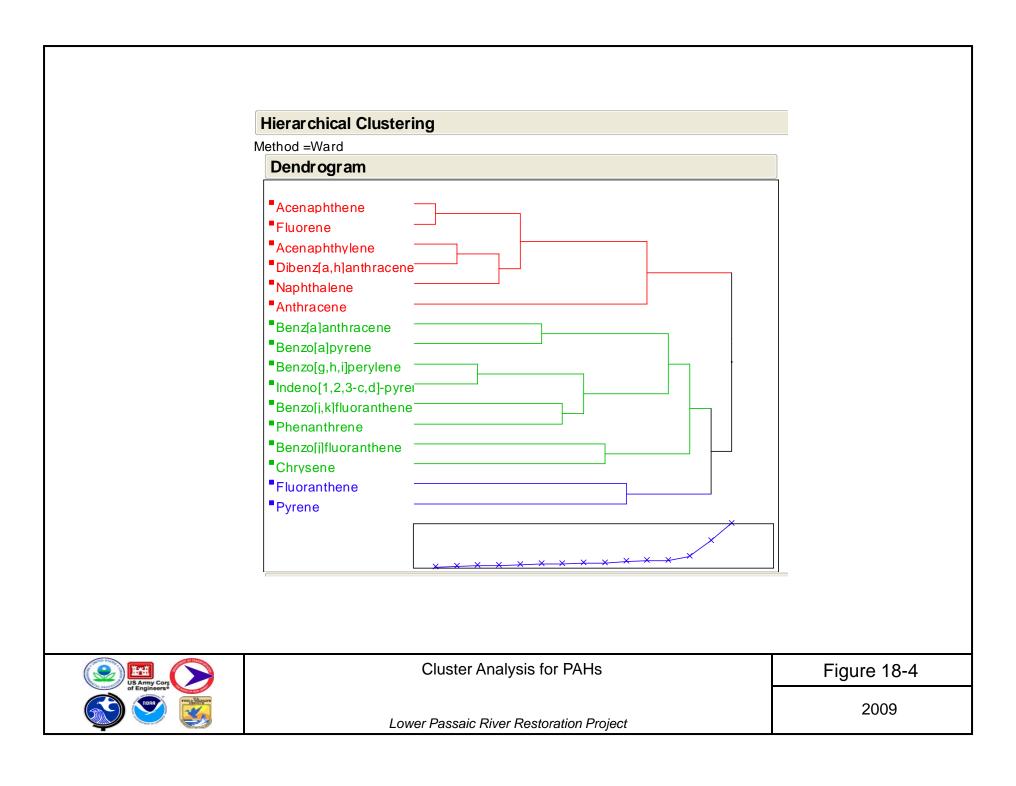
## **Chapter 18 Figures**

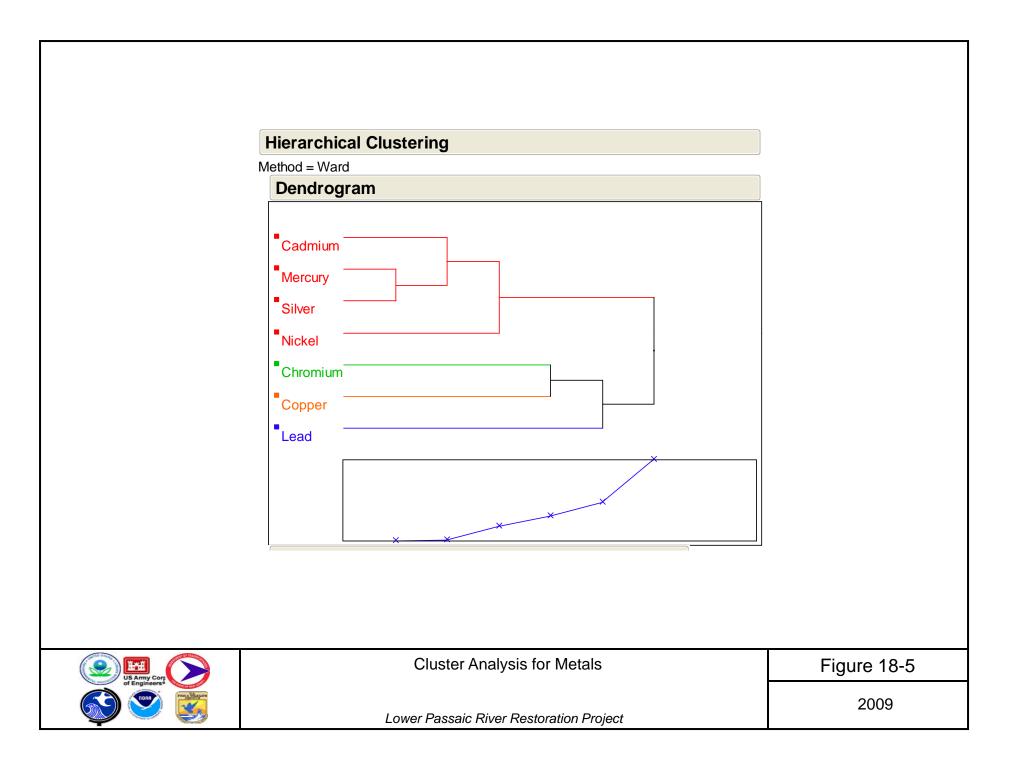






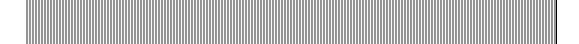


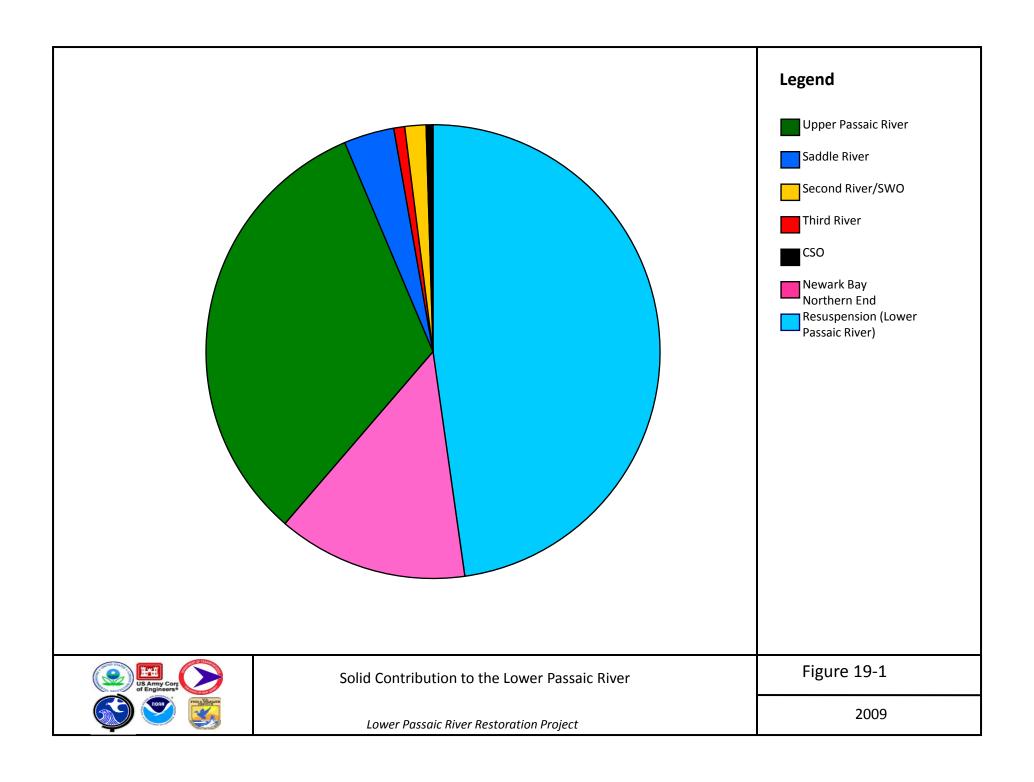


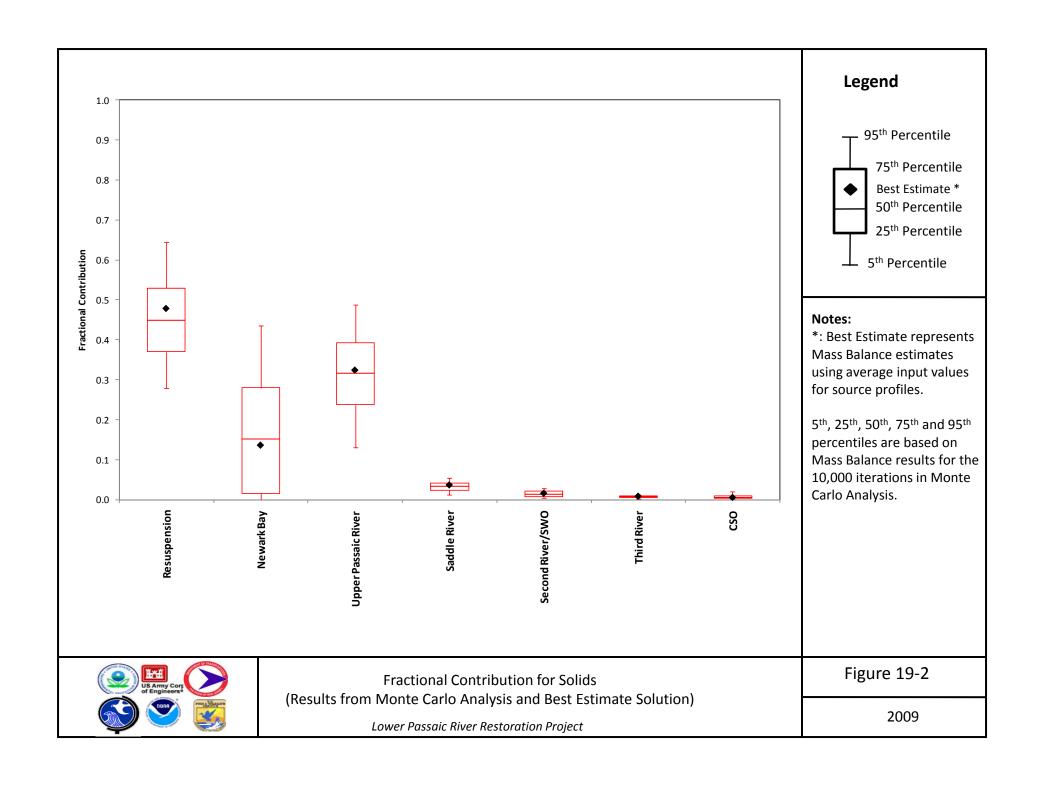


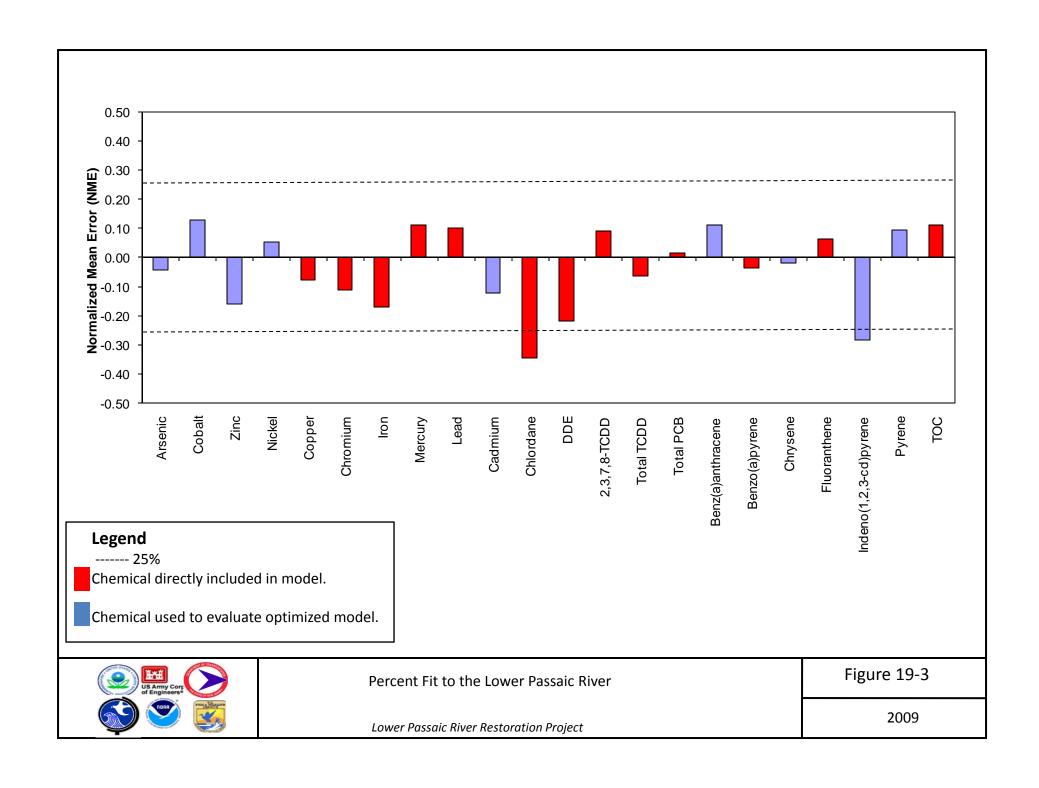


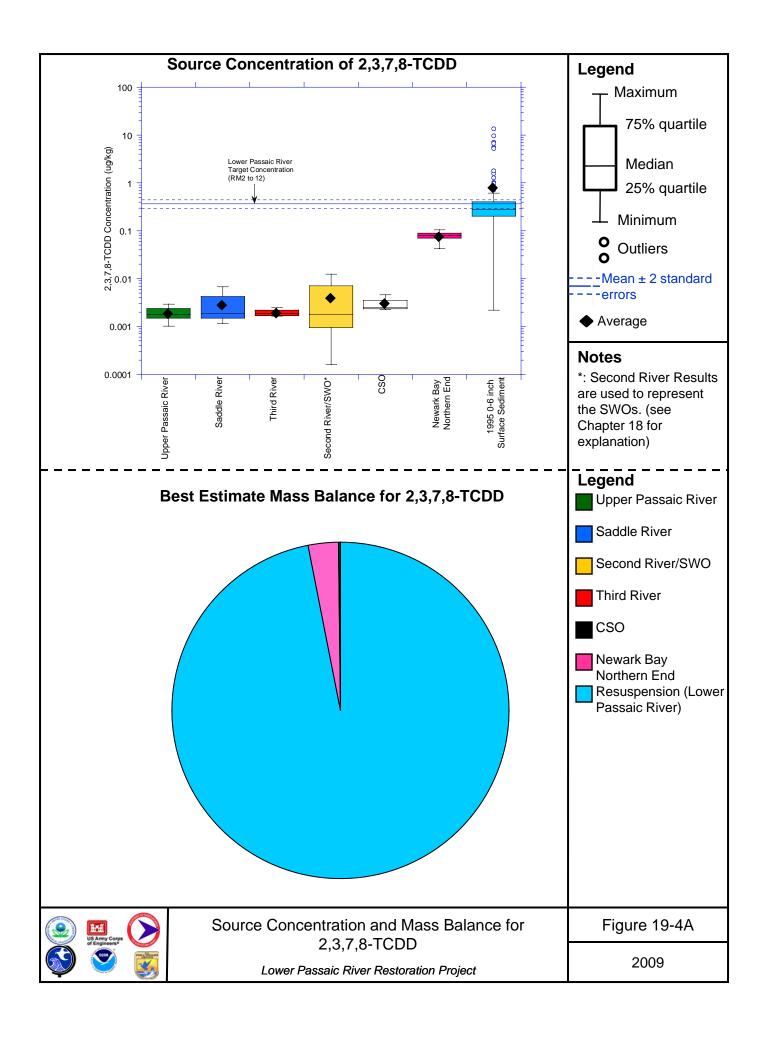
## **Chapter 19 Figures**

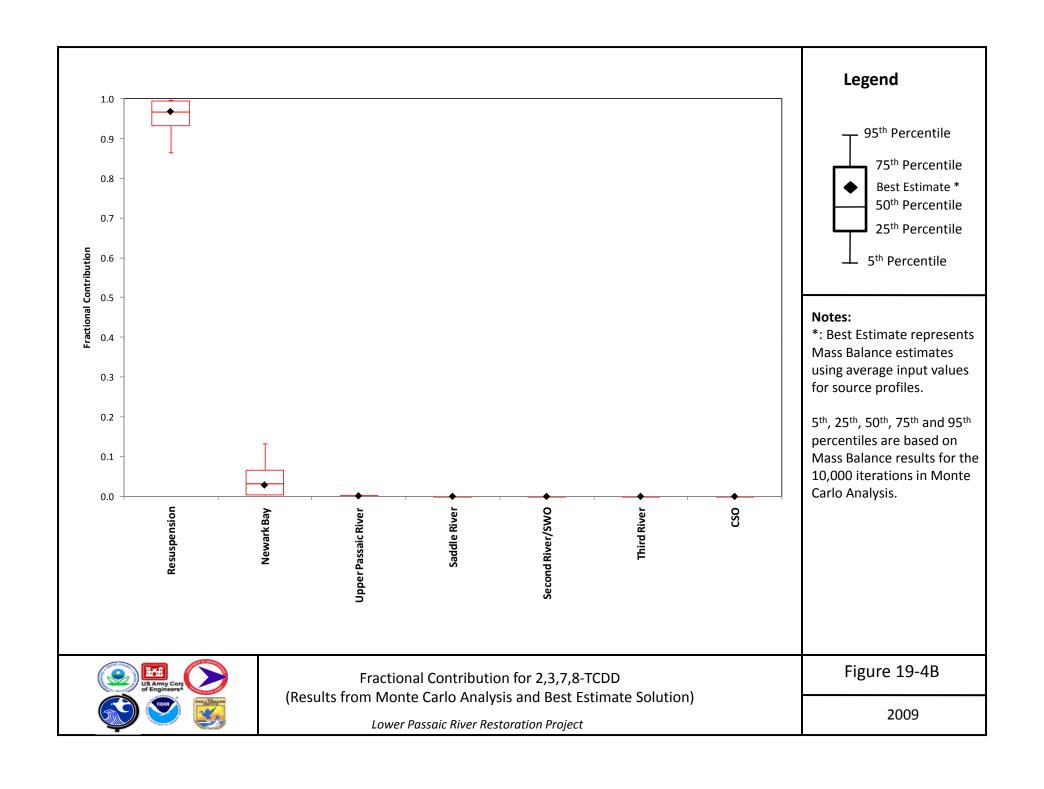


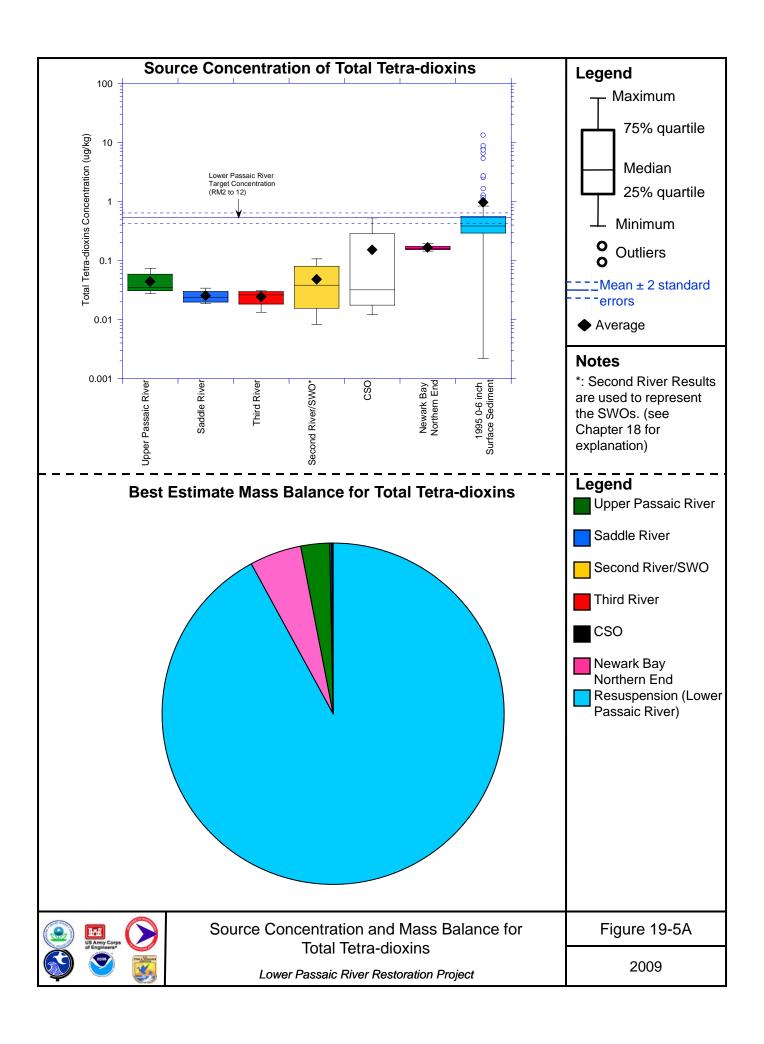


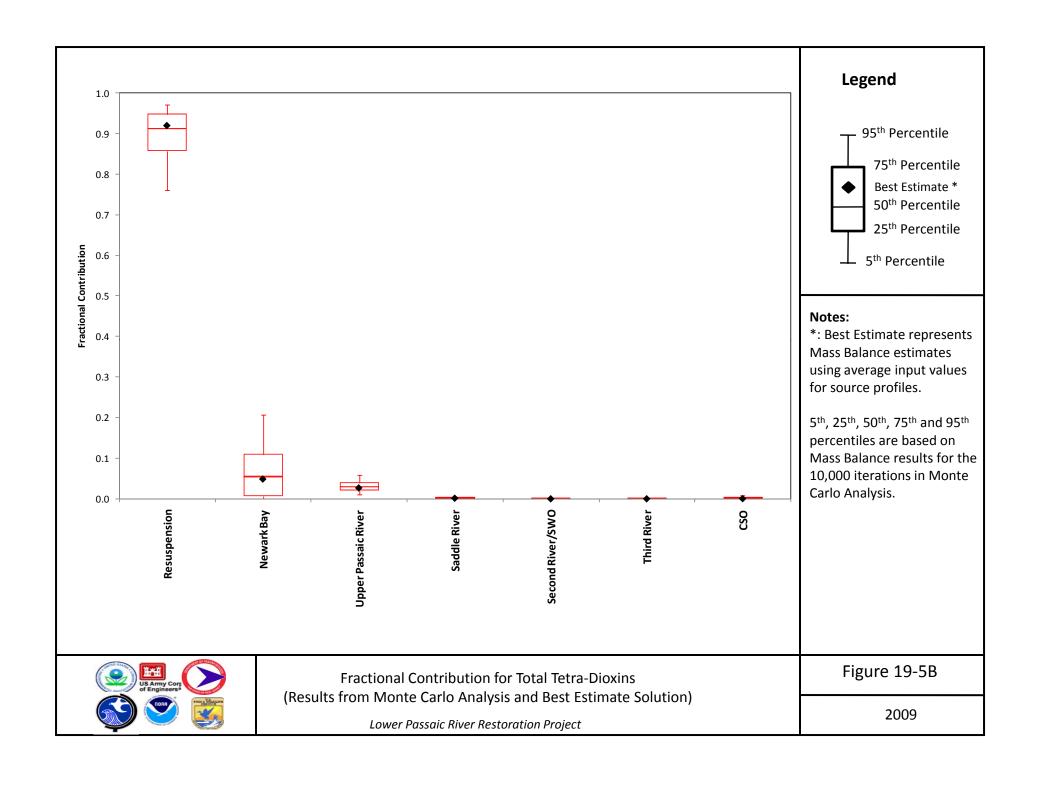


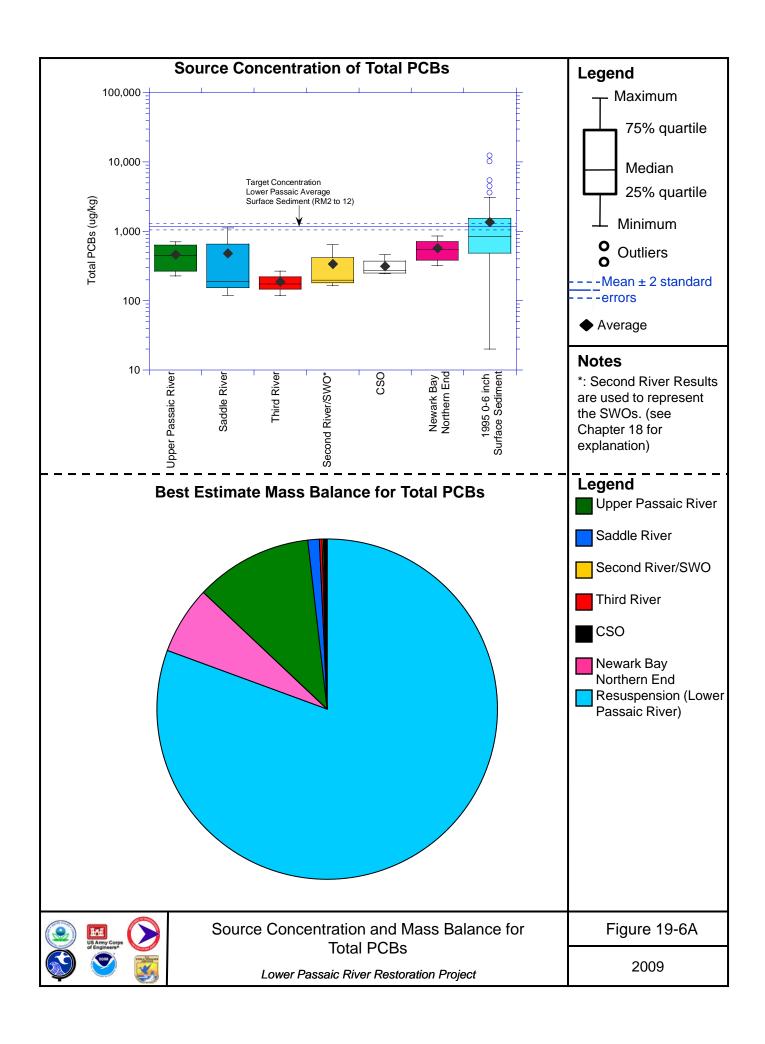


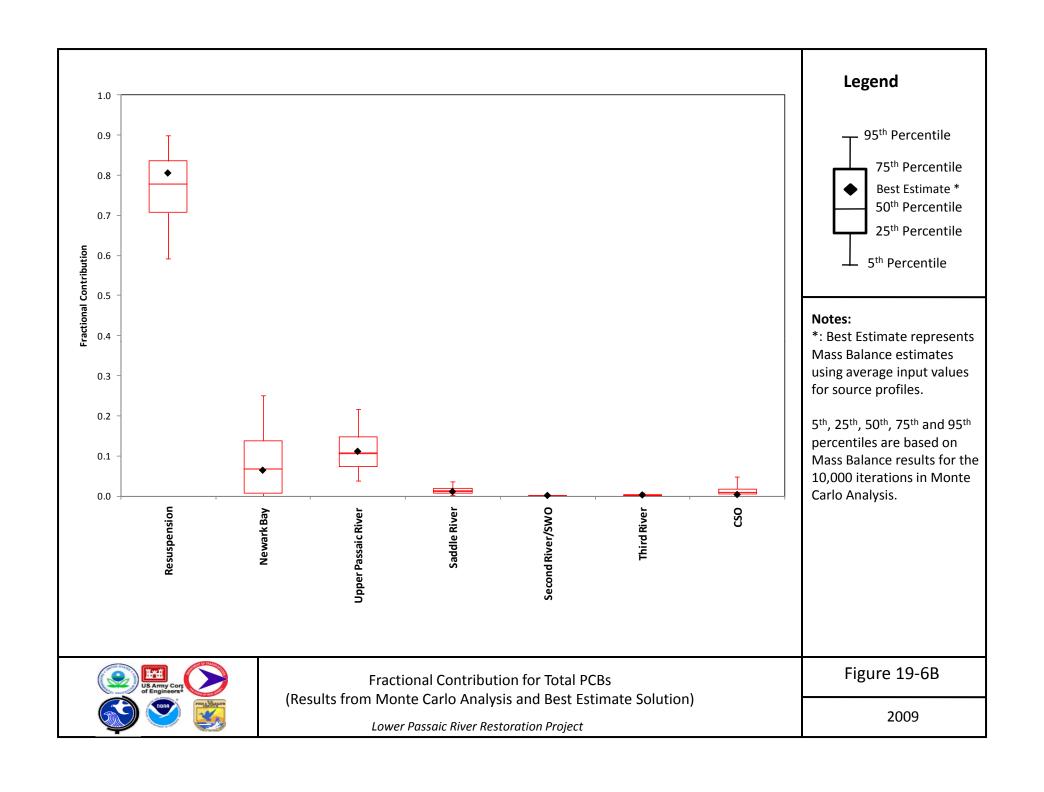


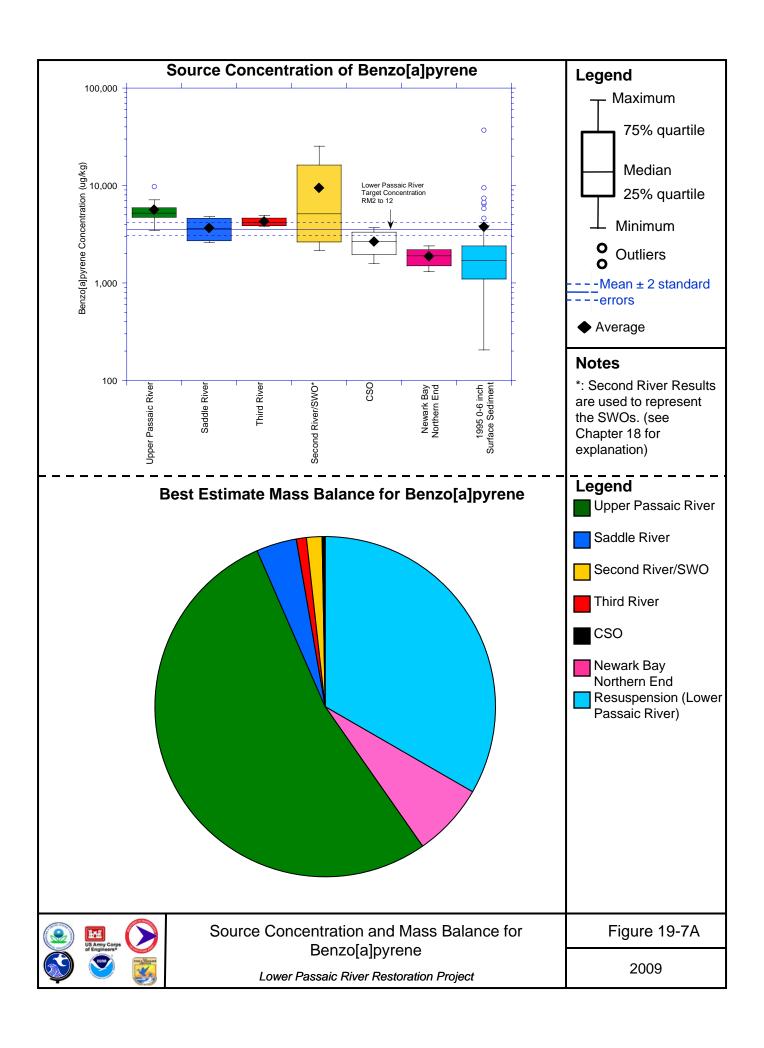


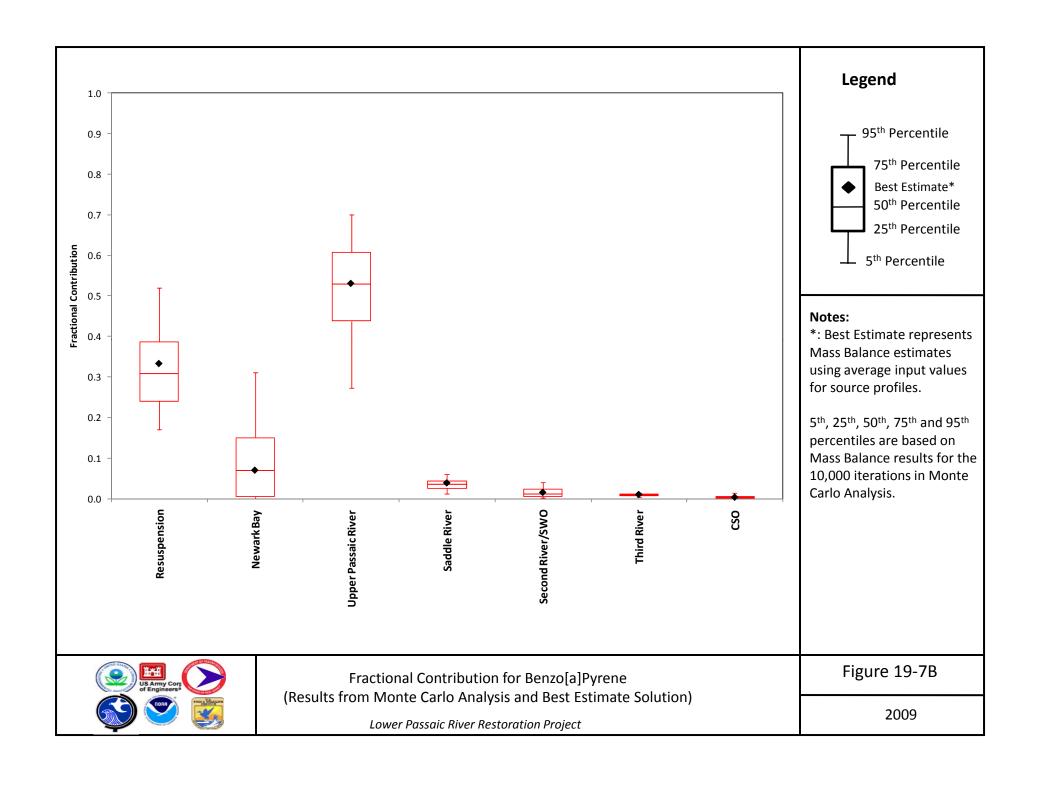


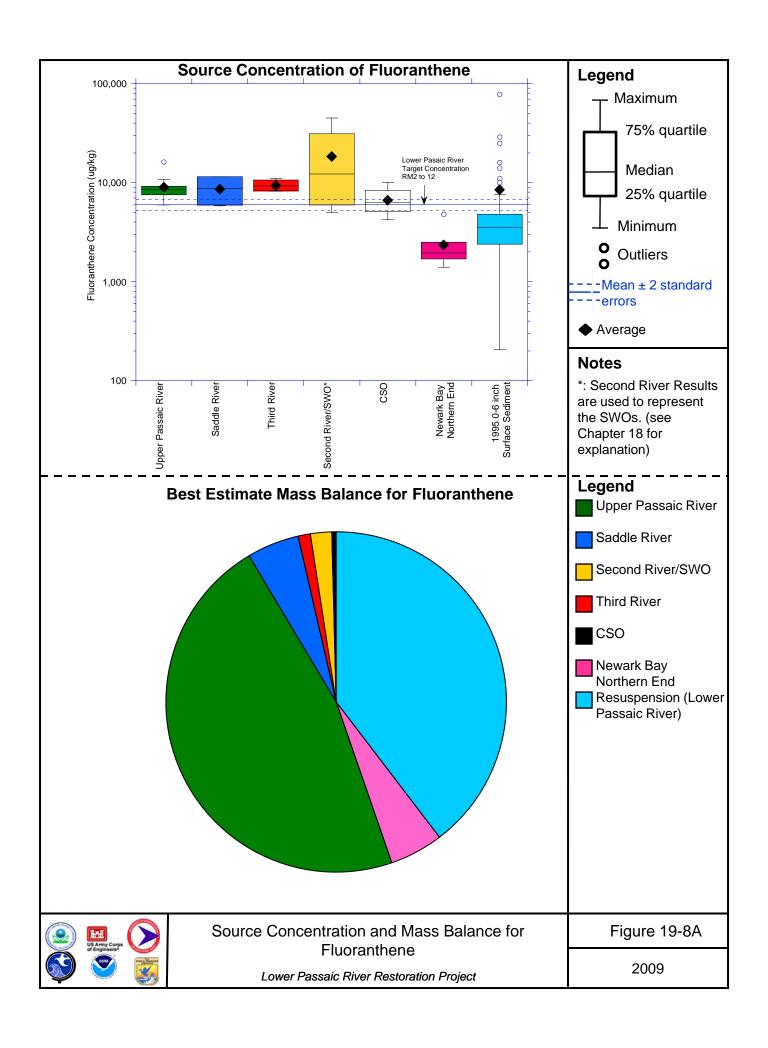


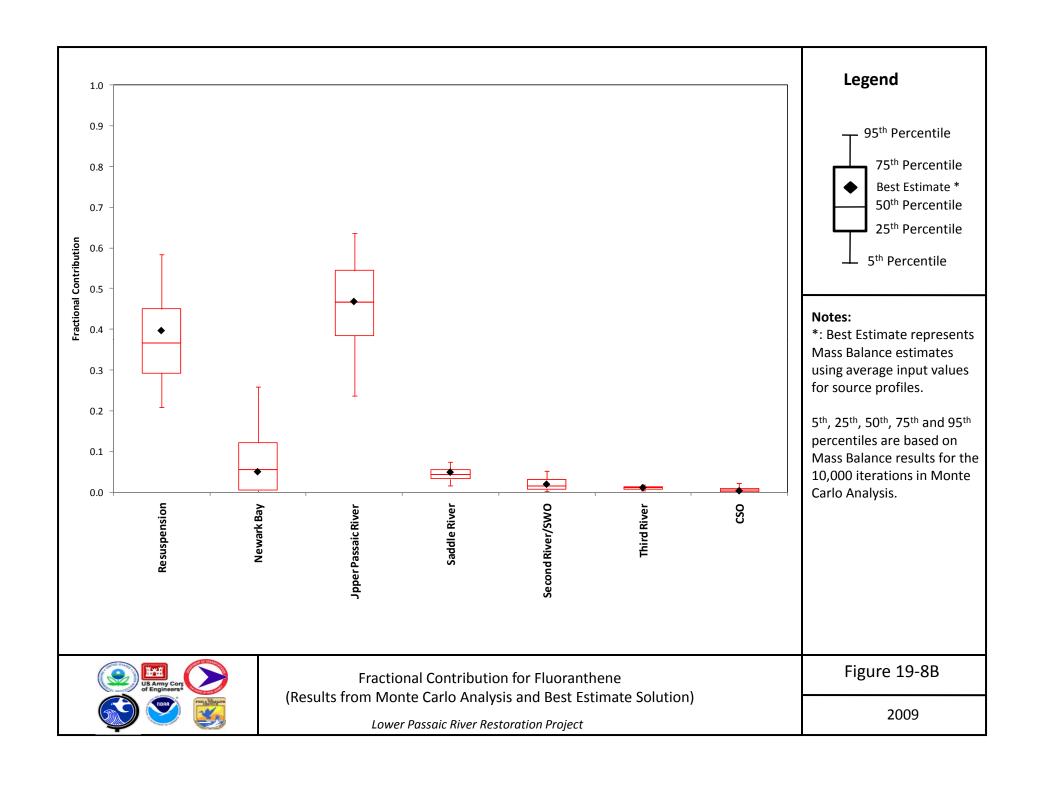


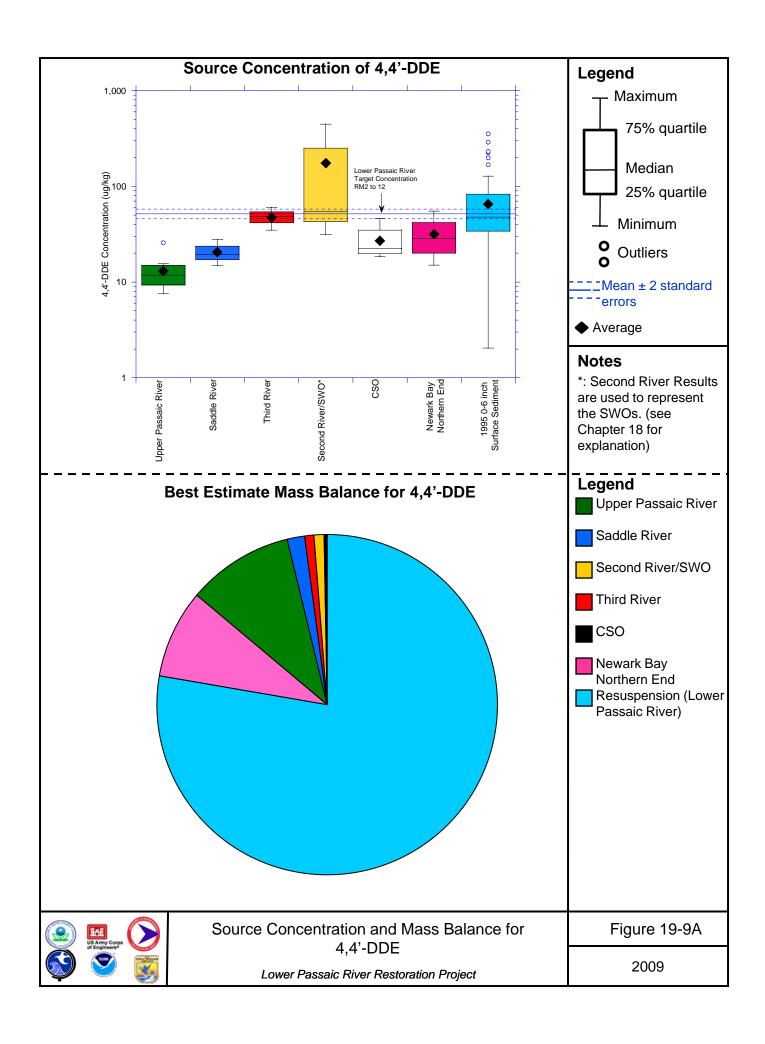


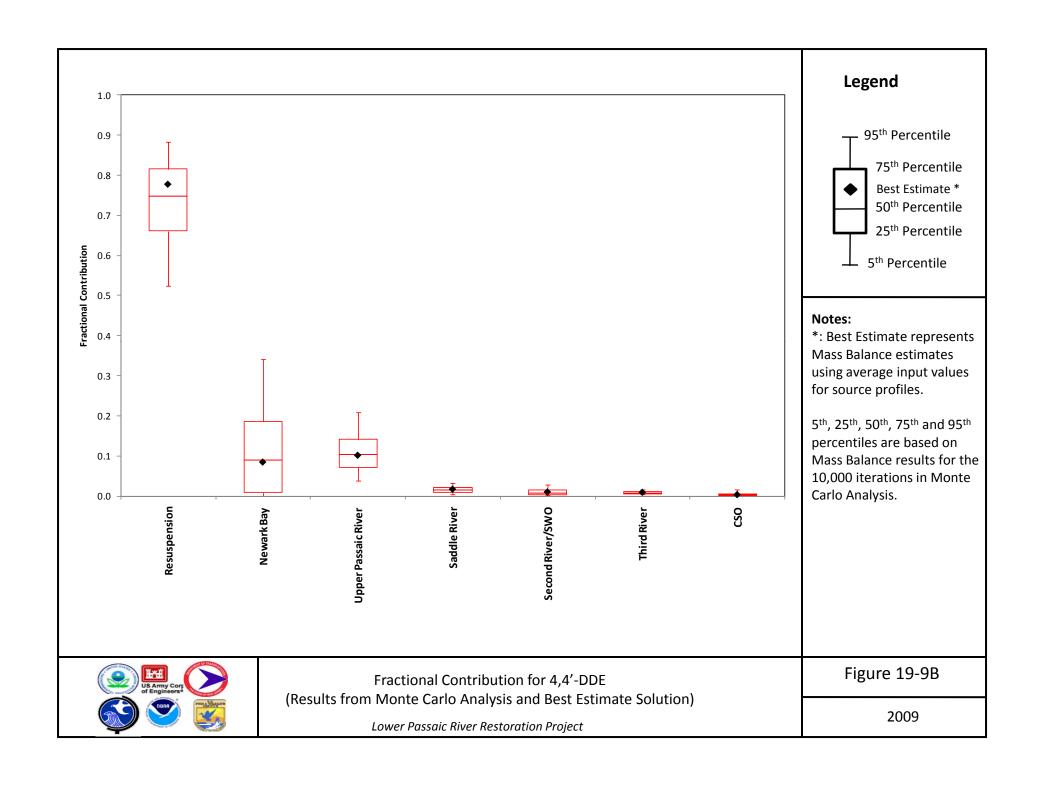


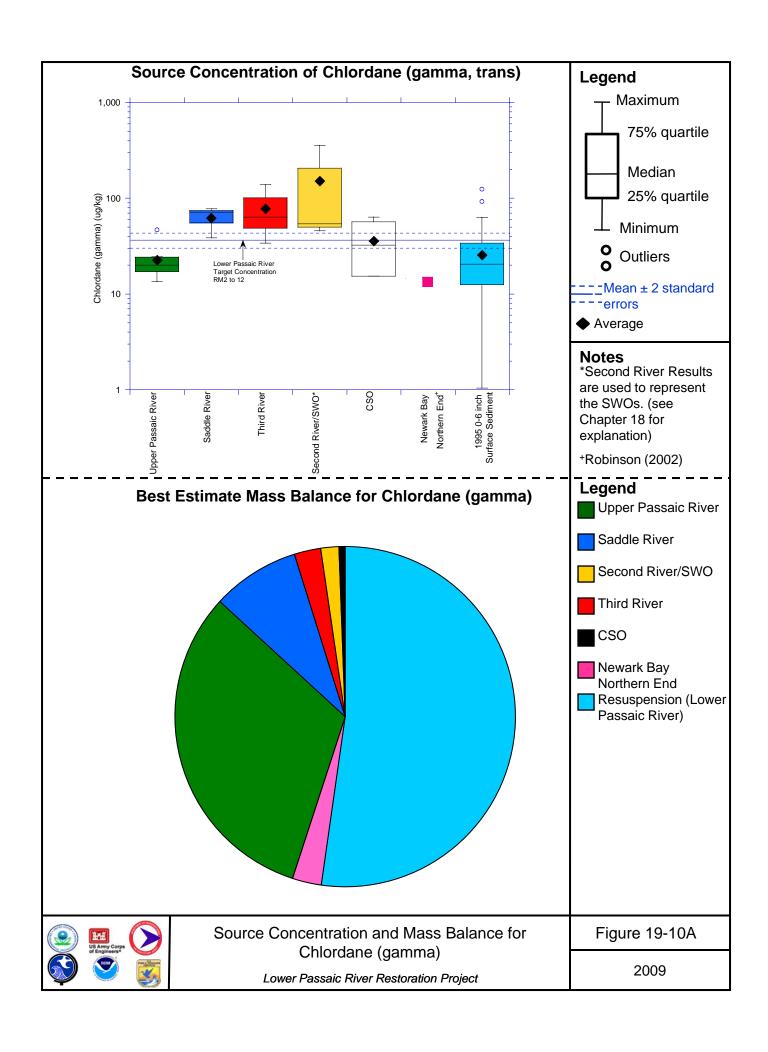


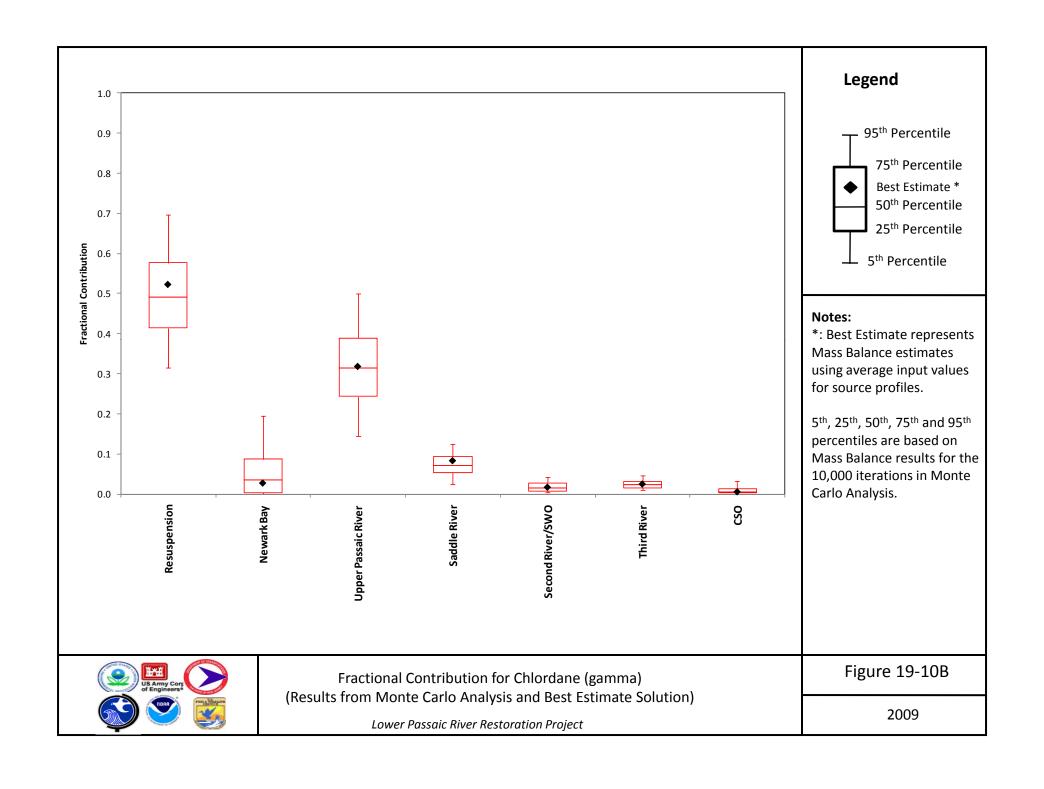


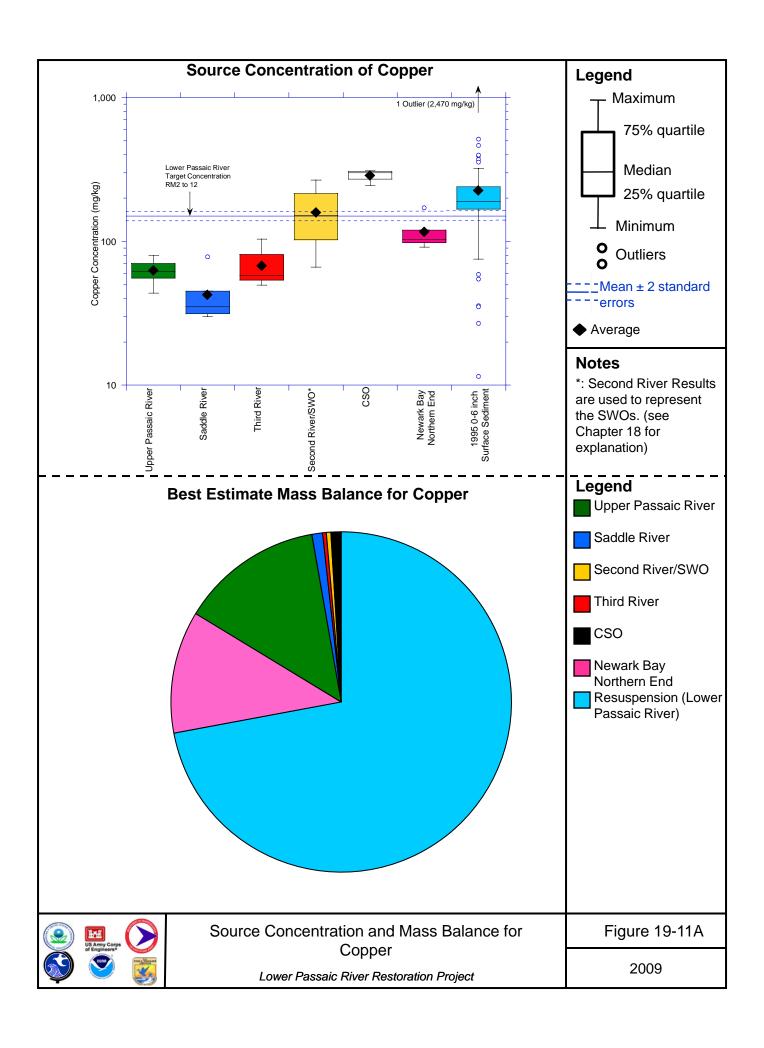


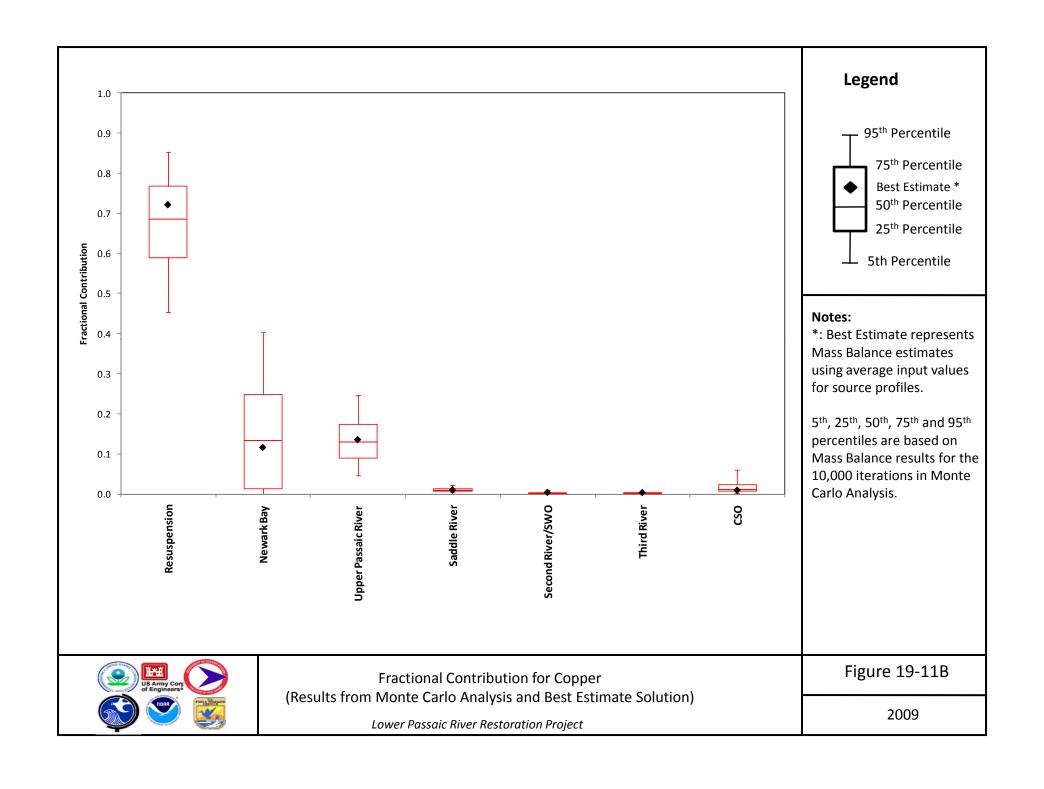


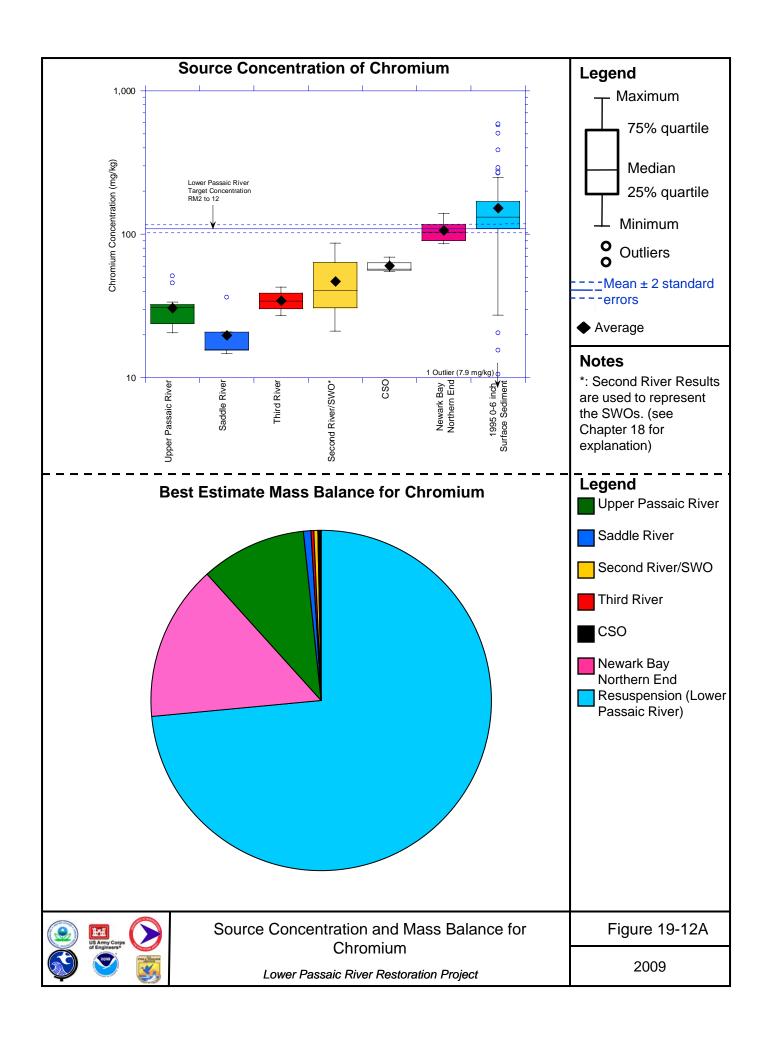


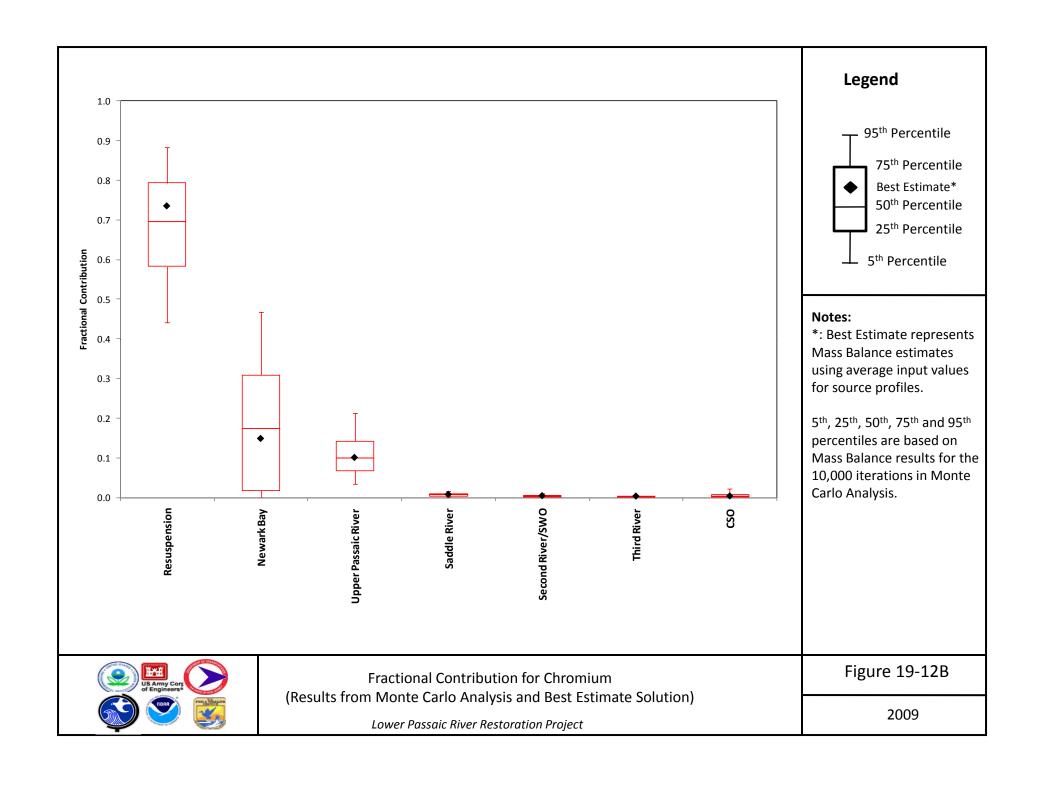


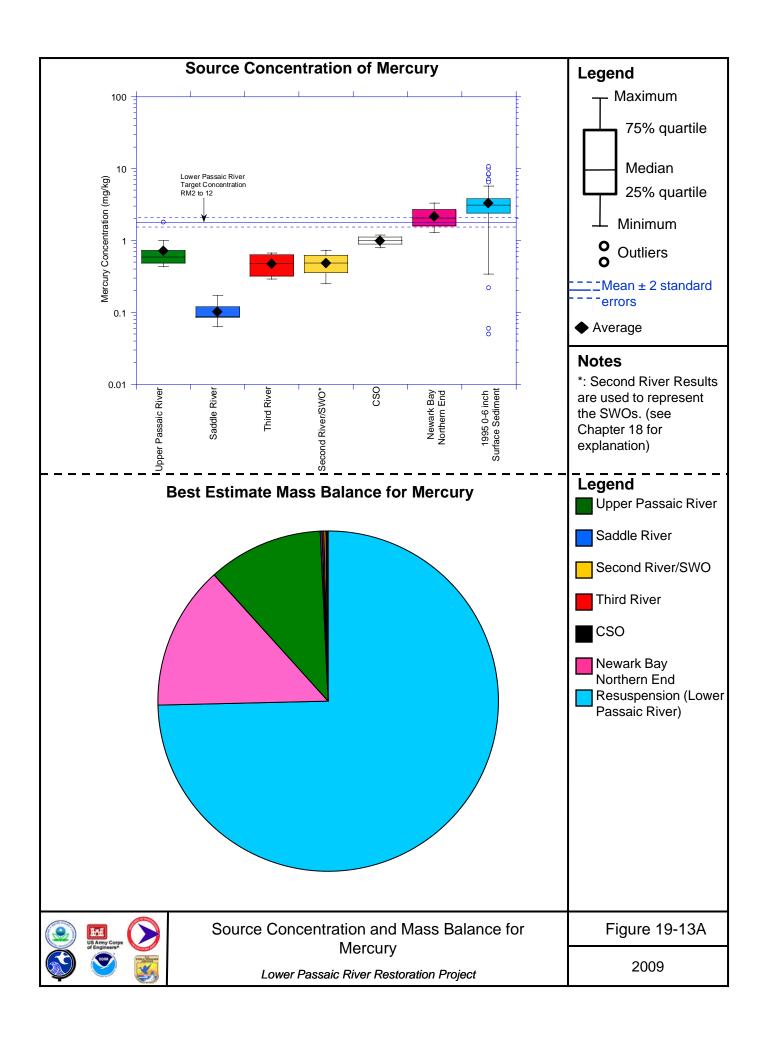


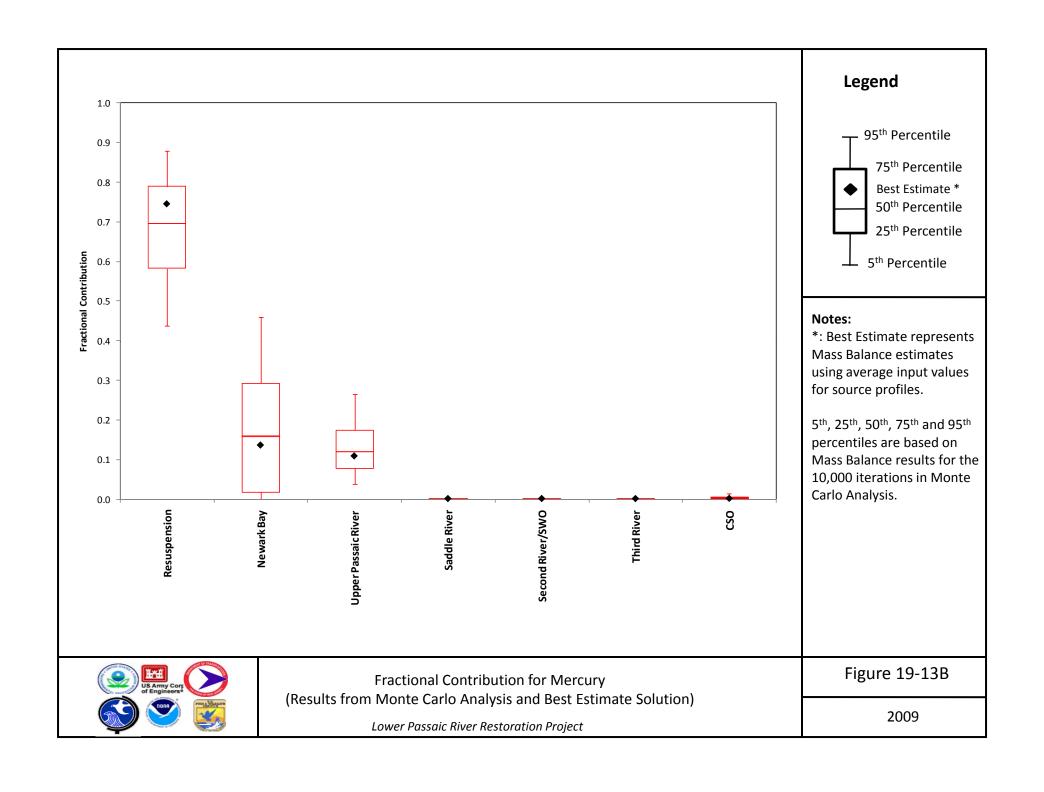


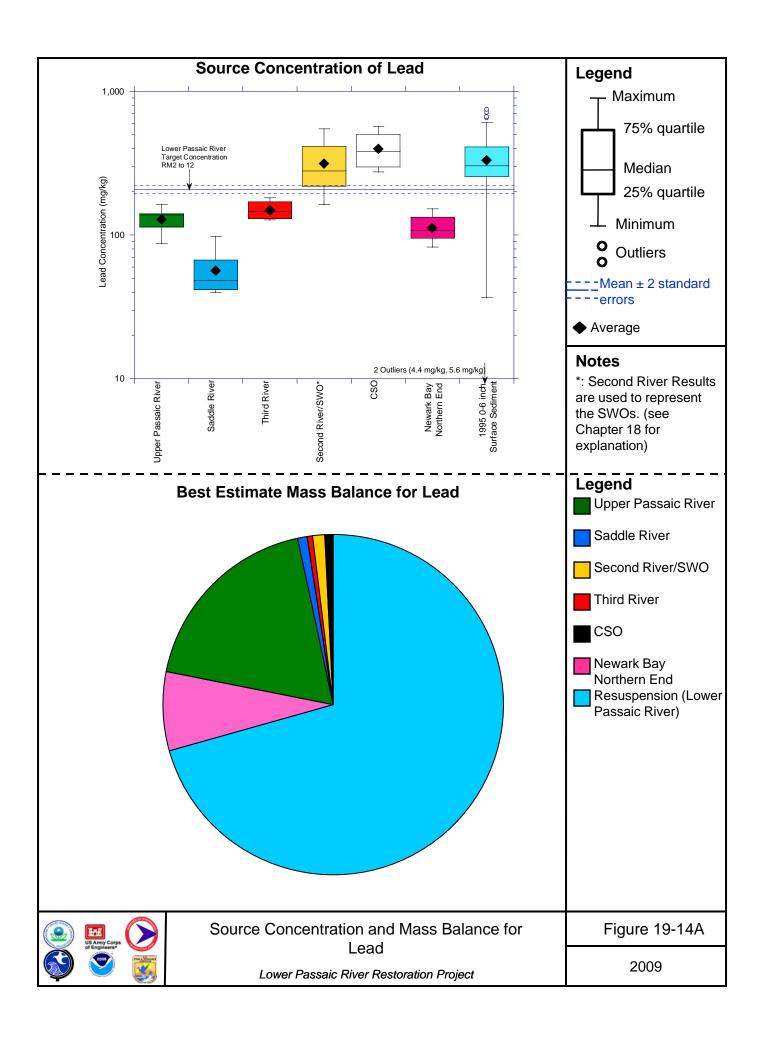


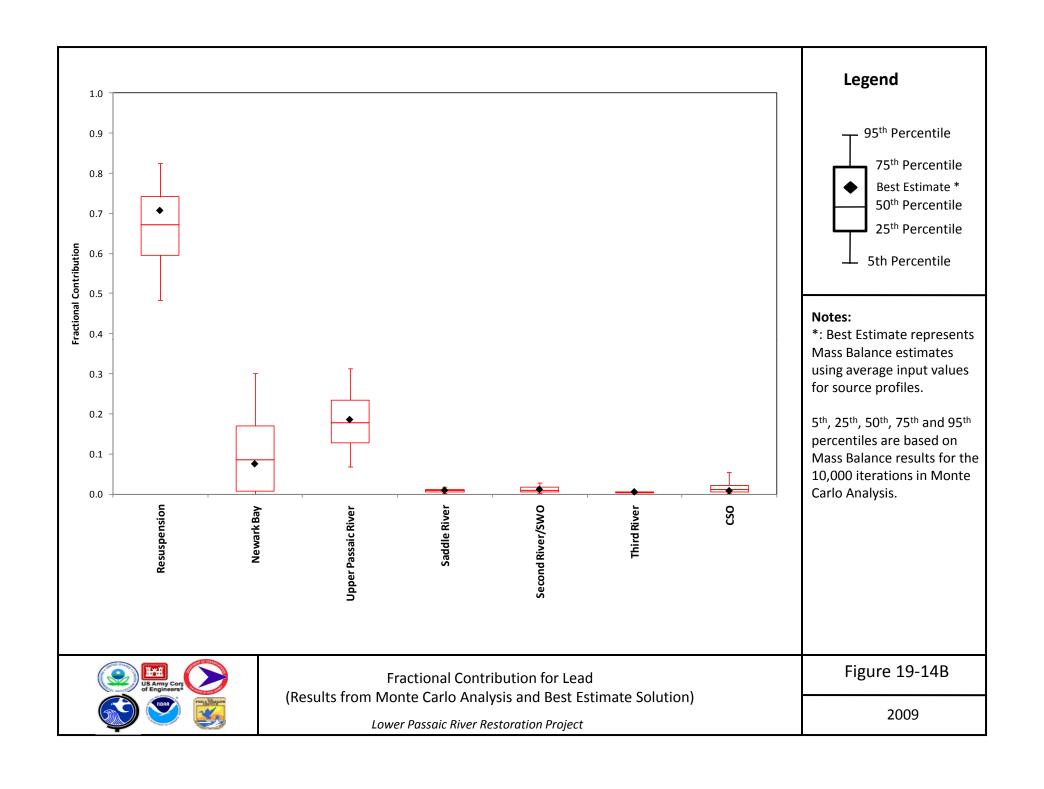


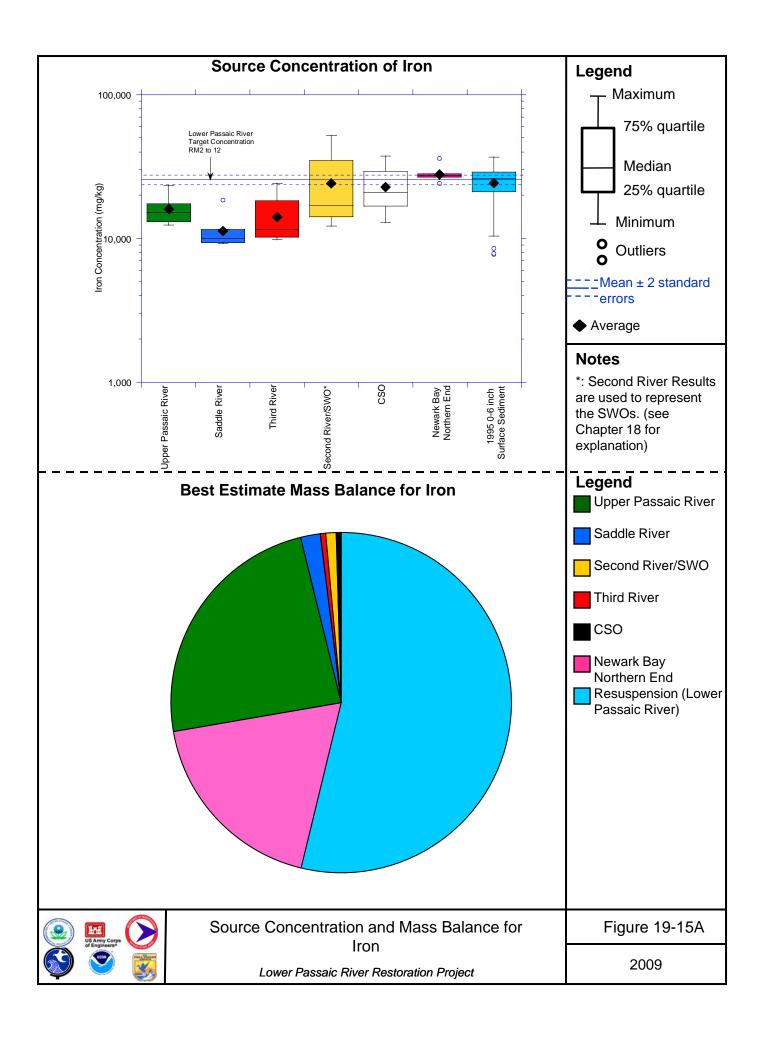


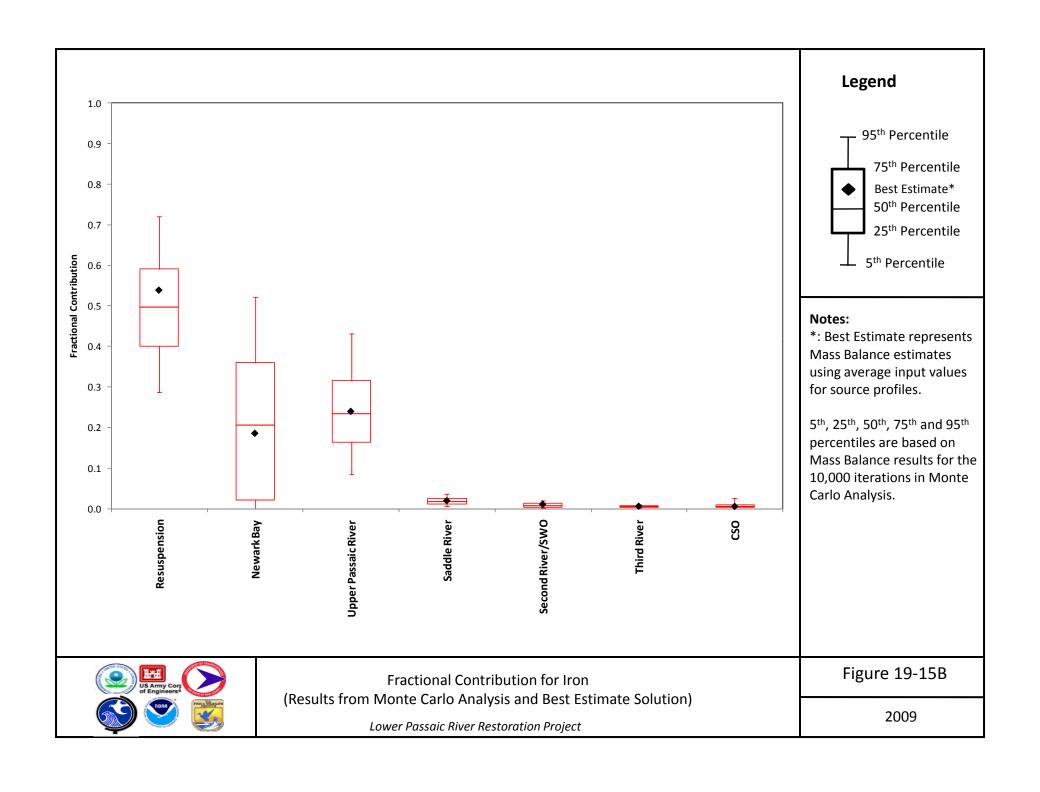


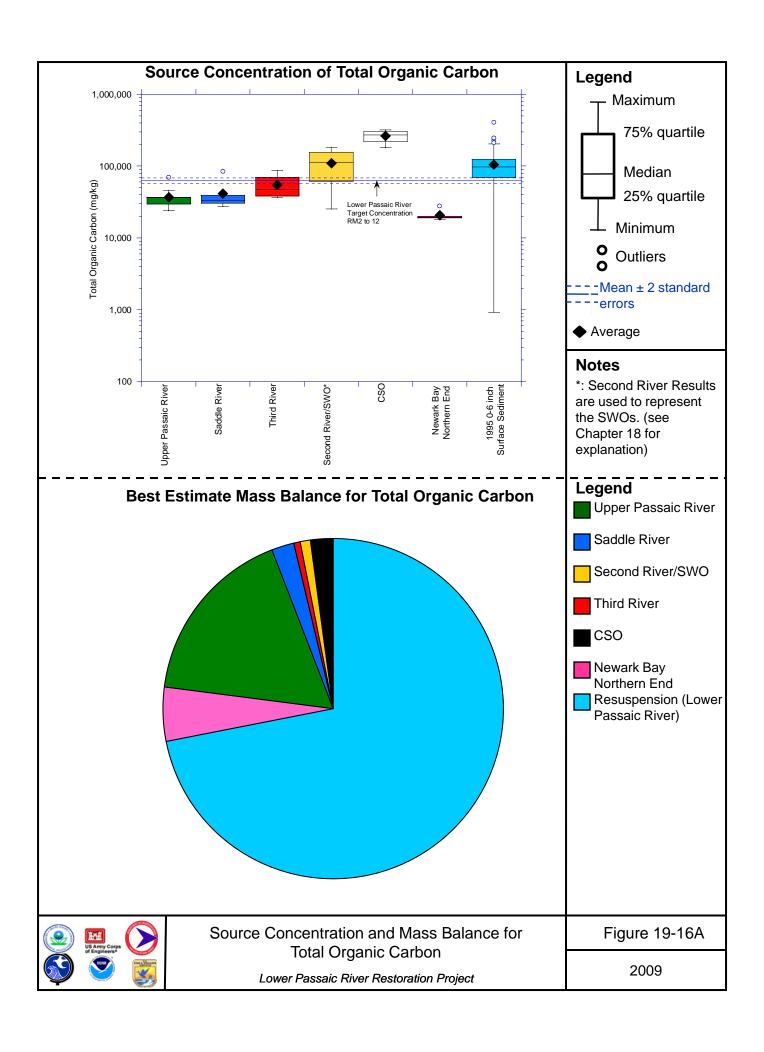


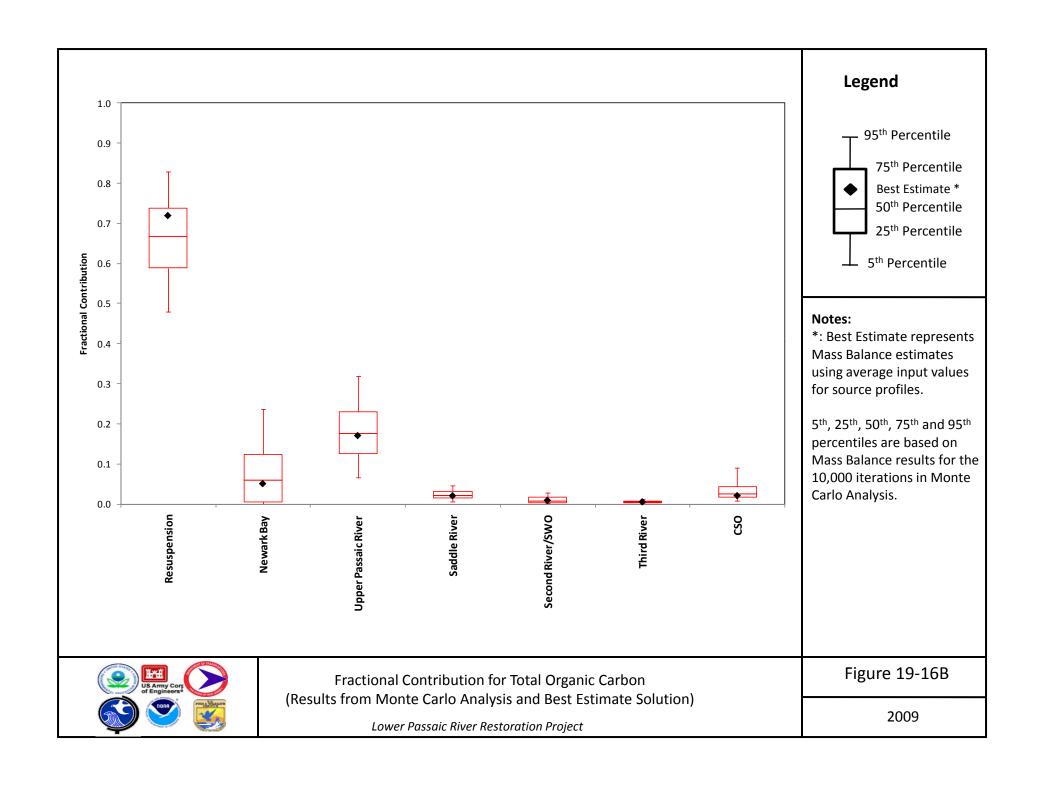


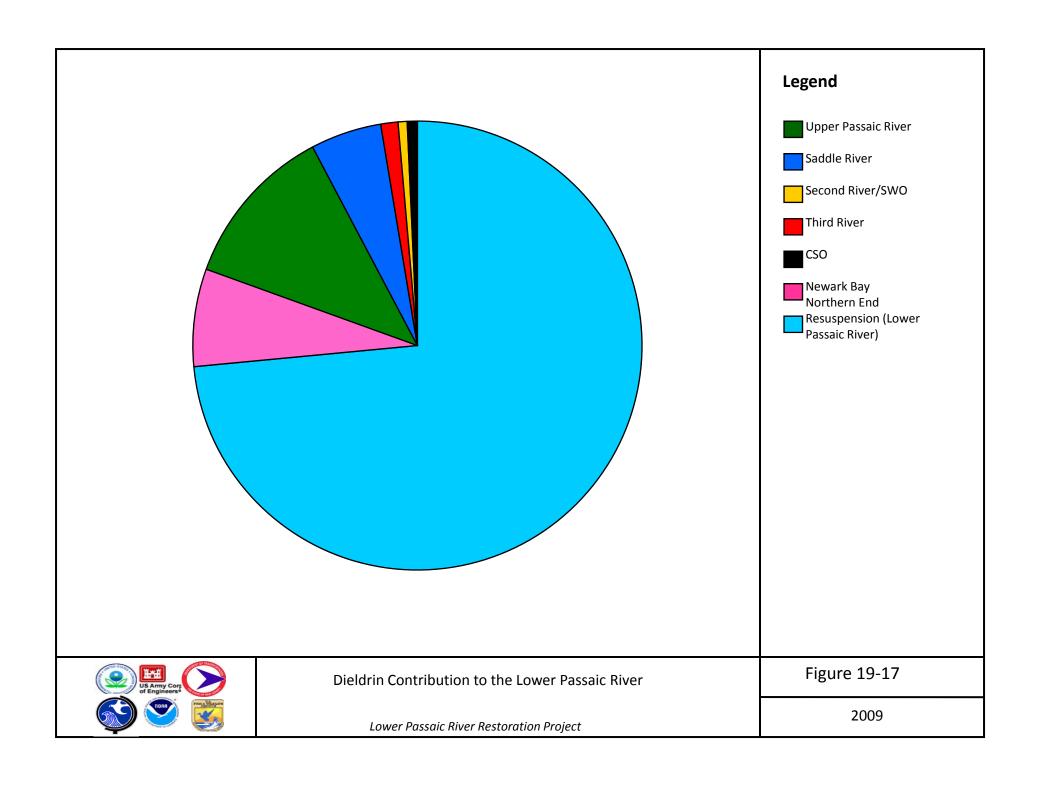


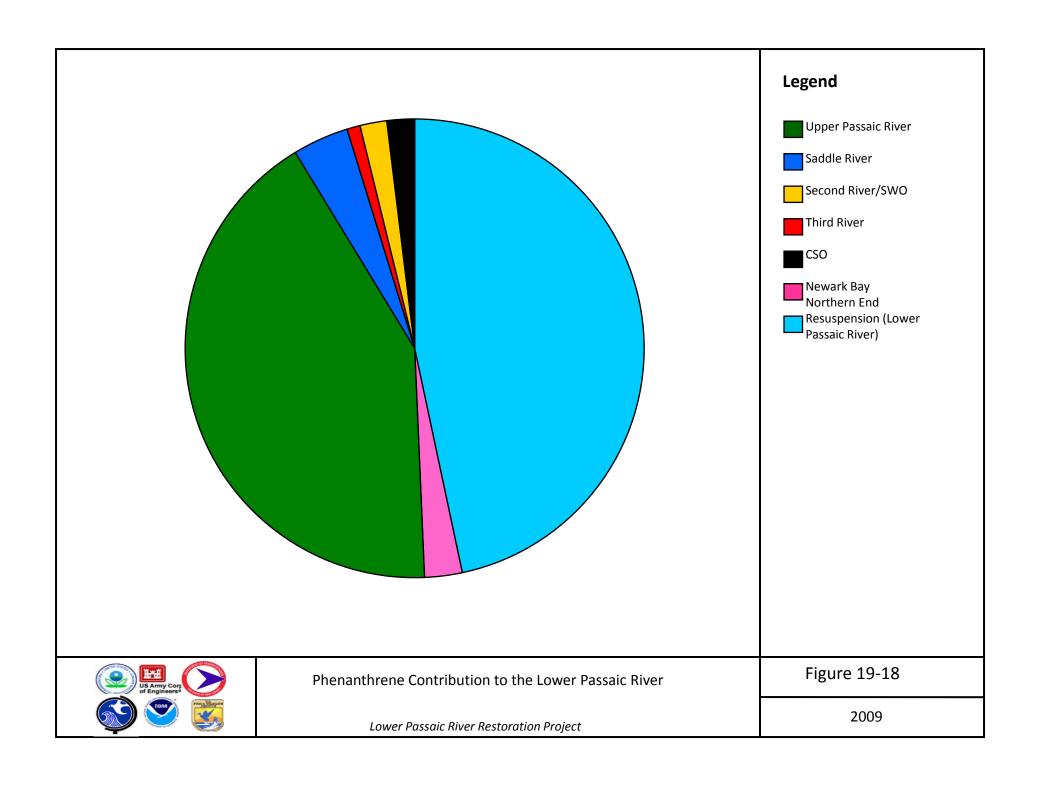








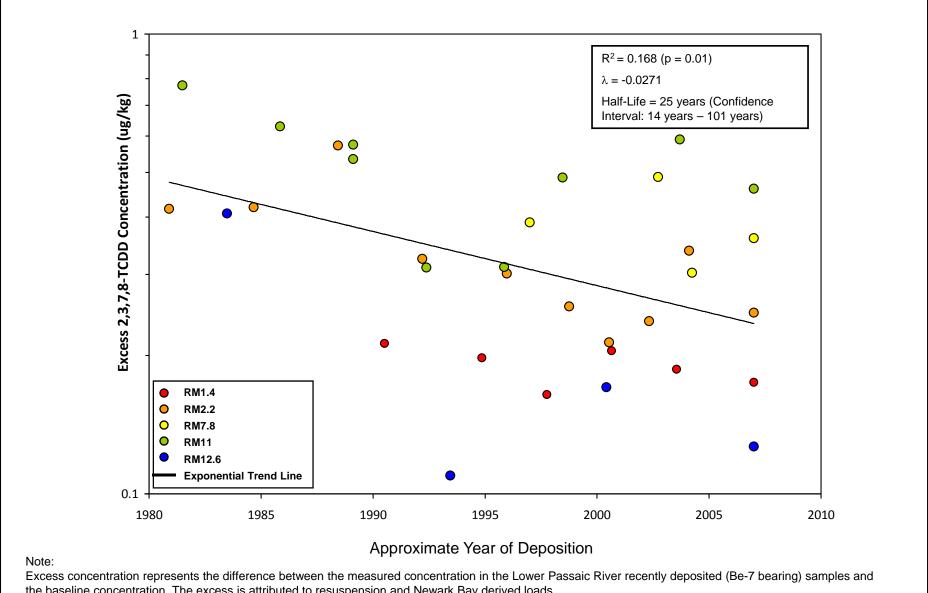






## **Chapter 20 Figures**





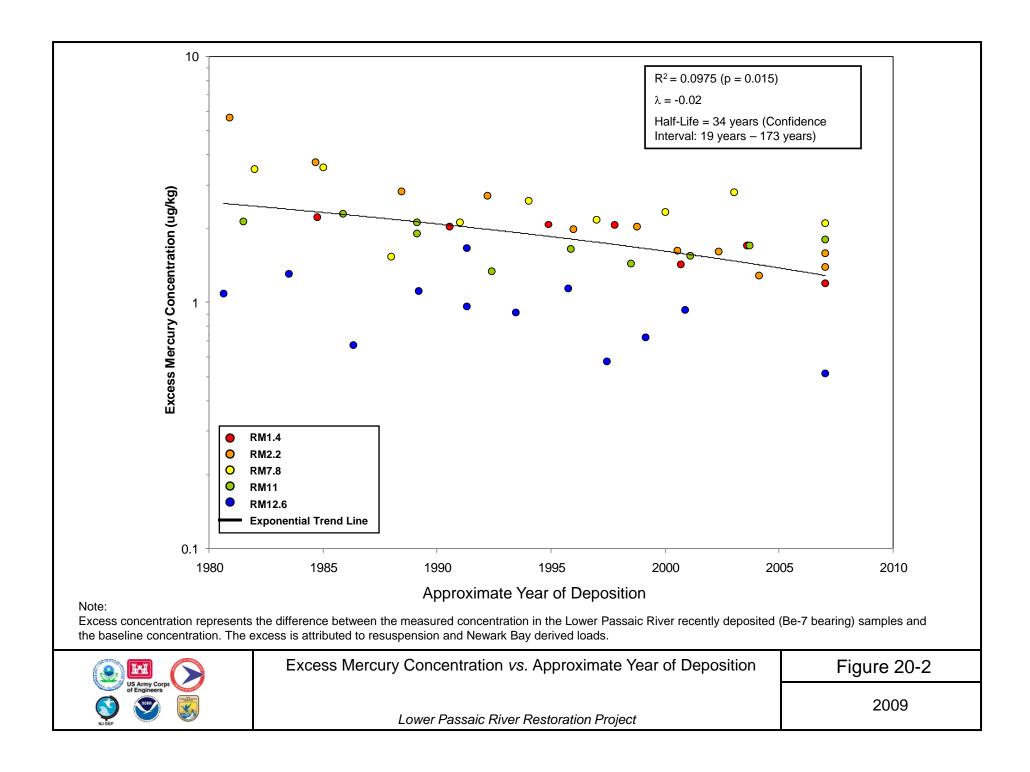
the baseline concentration. The excess is attributed to resuspension and Newark Bay derived loads.

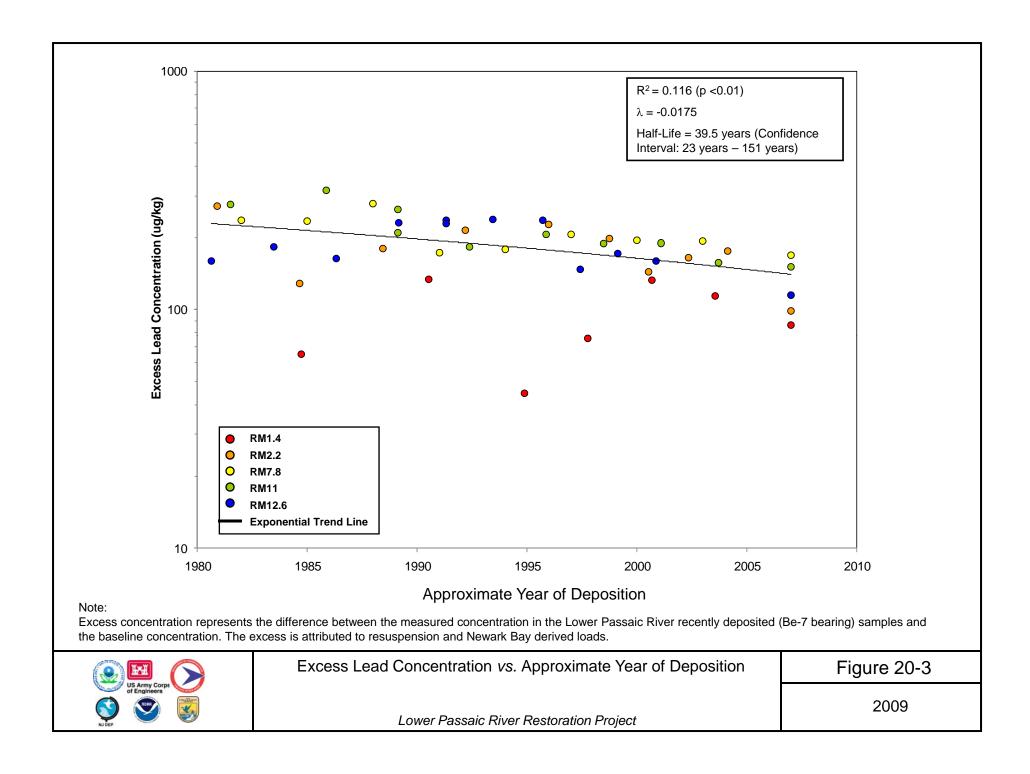


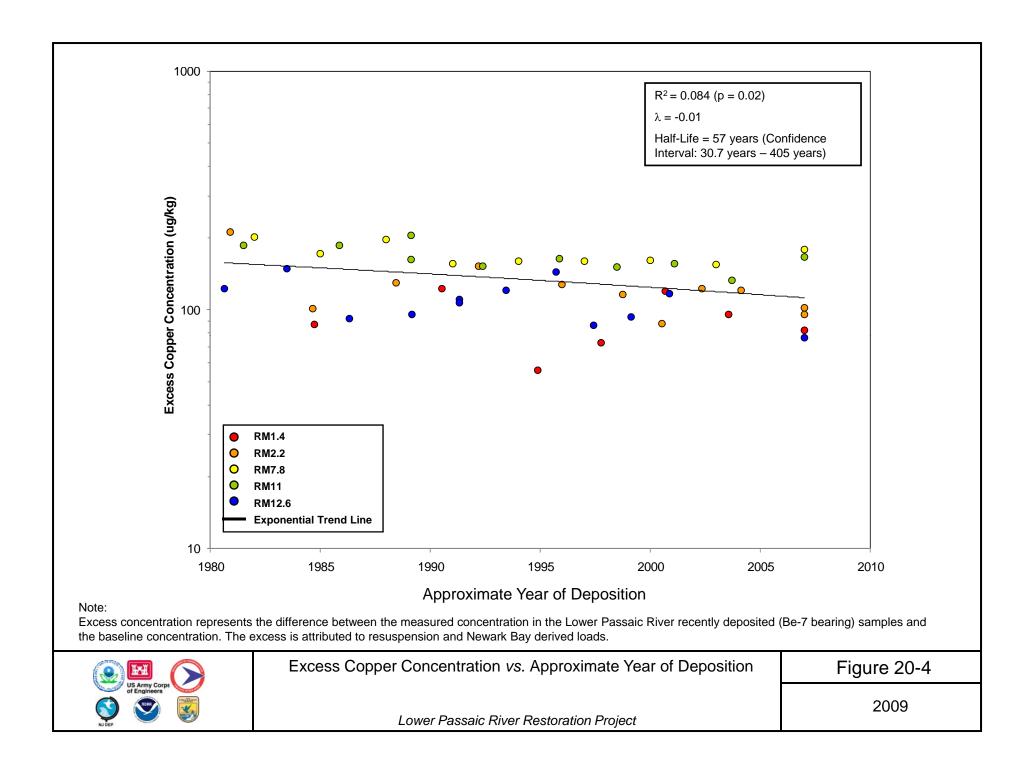
Excess 2,3,7,8-TCDD Concentration vs. Approximate Year of Deposition

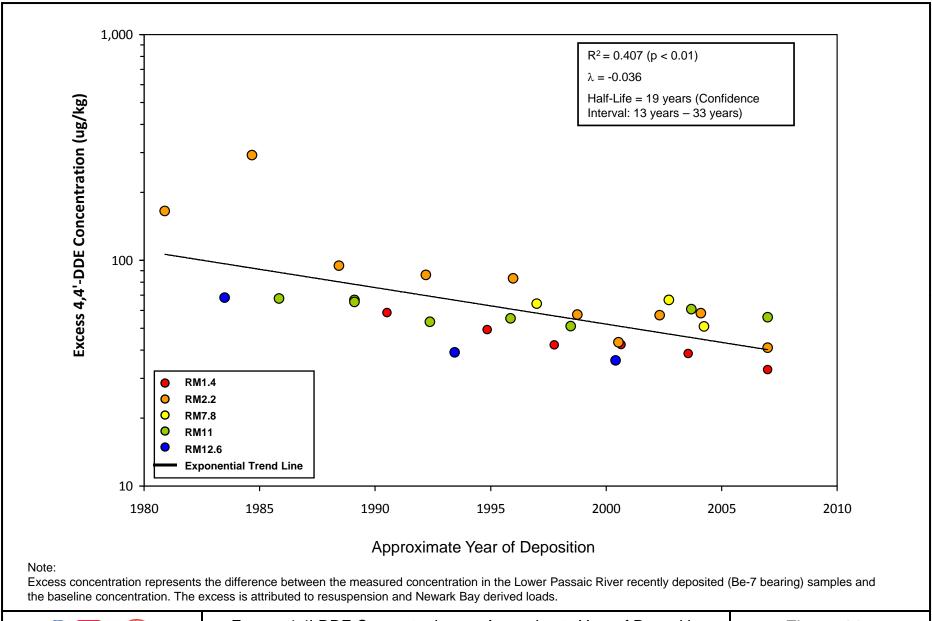
Lower Passaic River Restoration Project

Figure 20-1	
2009	









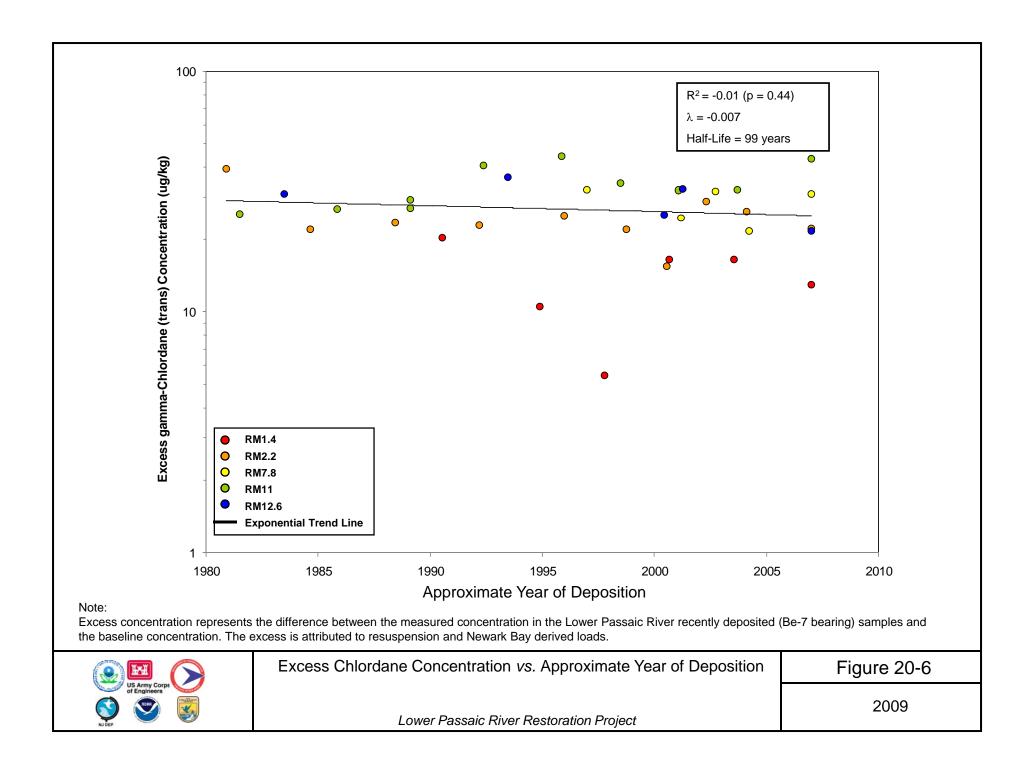


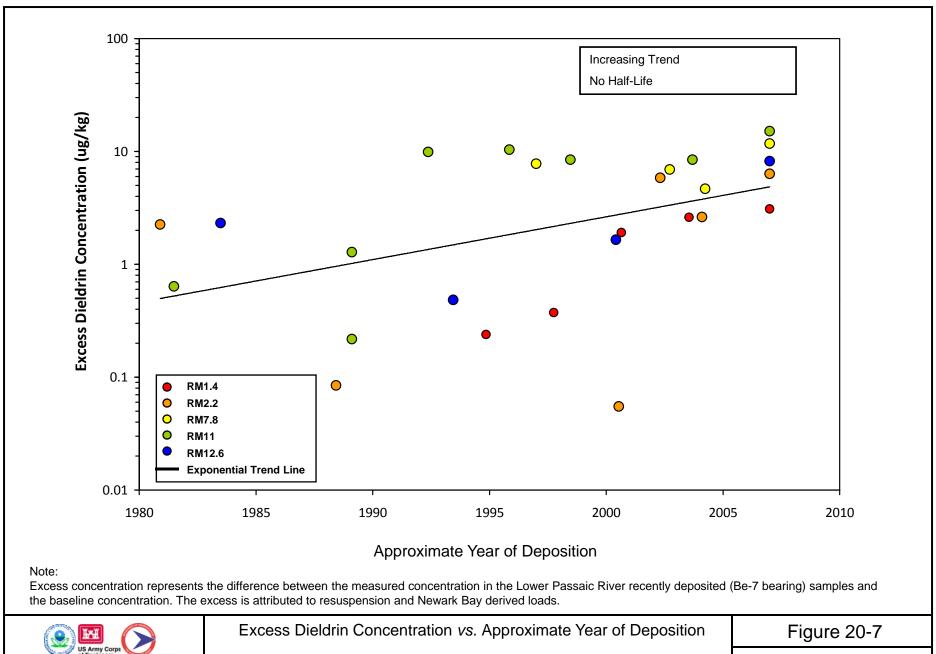
Excess 4,4'-DDE Concentration vs. Approximate Year of Deposition

Figure 20-5

Lower Passaic River Restoration Project

2009

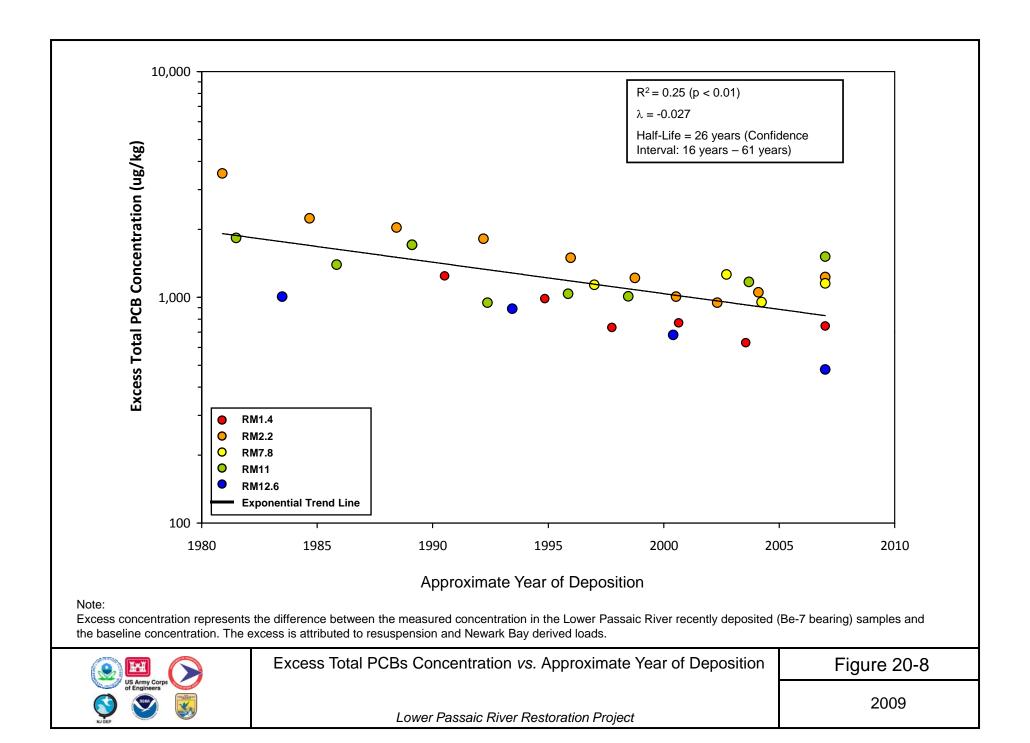


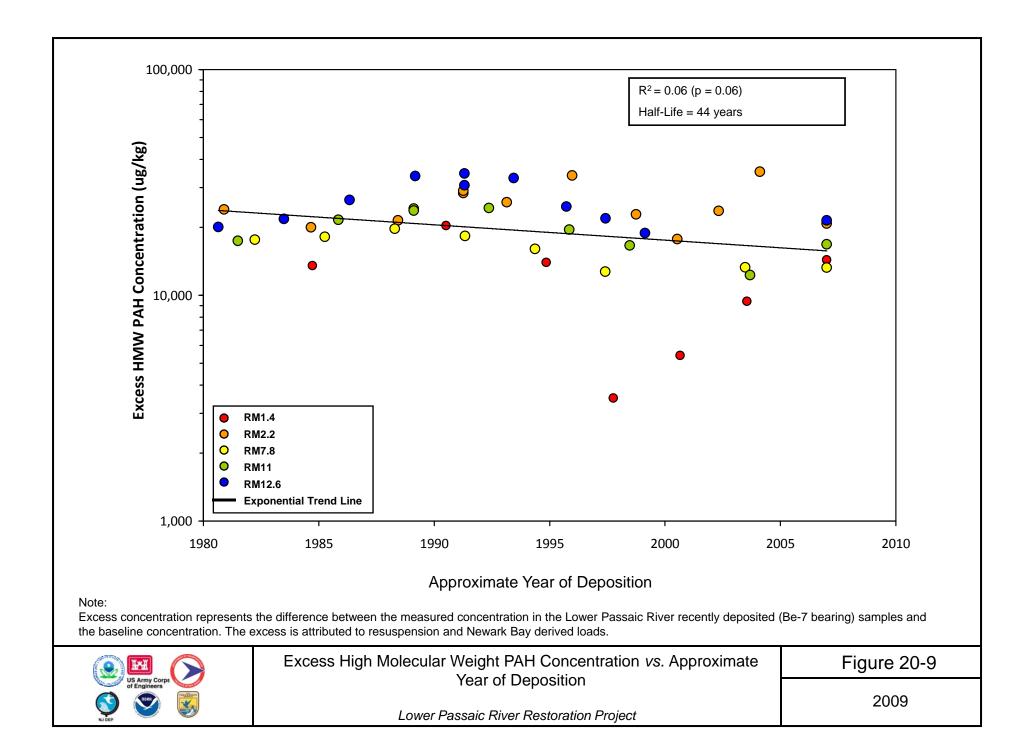


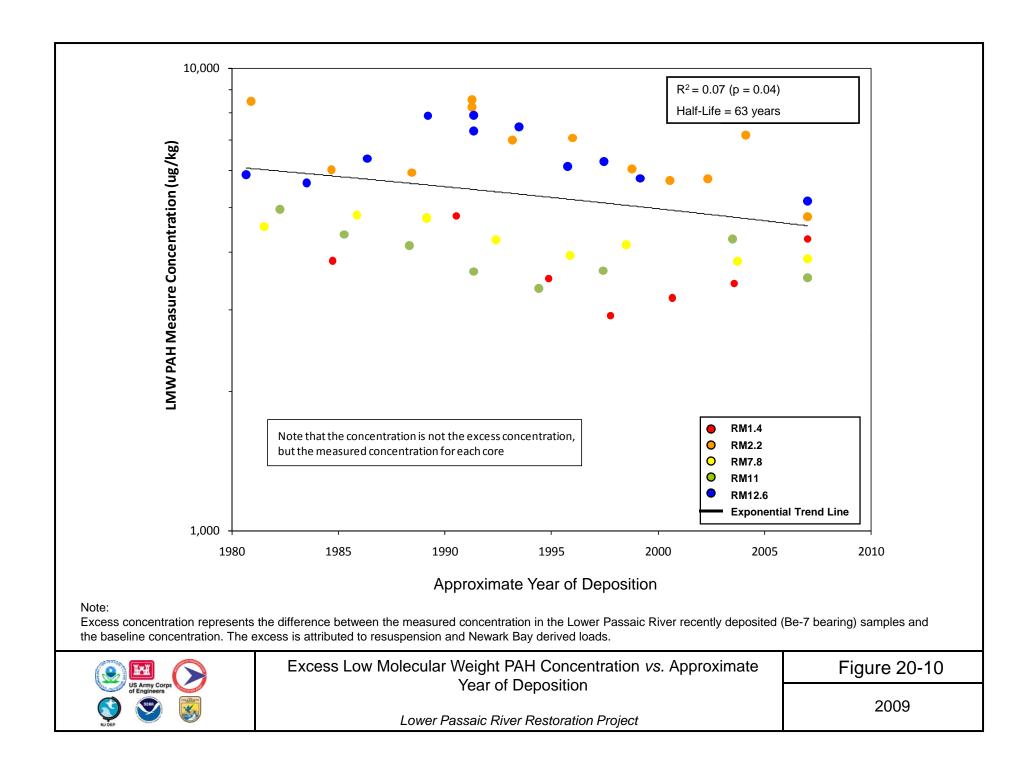


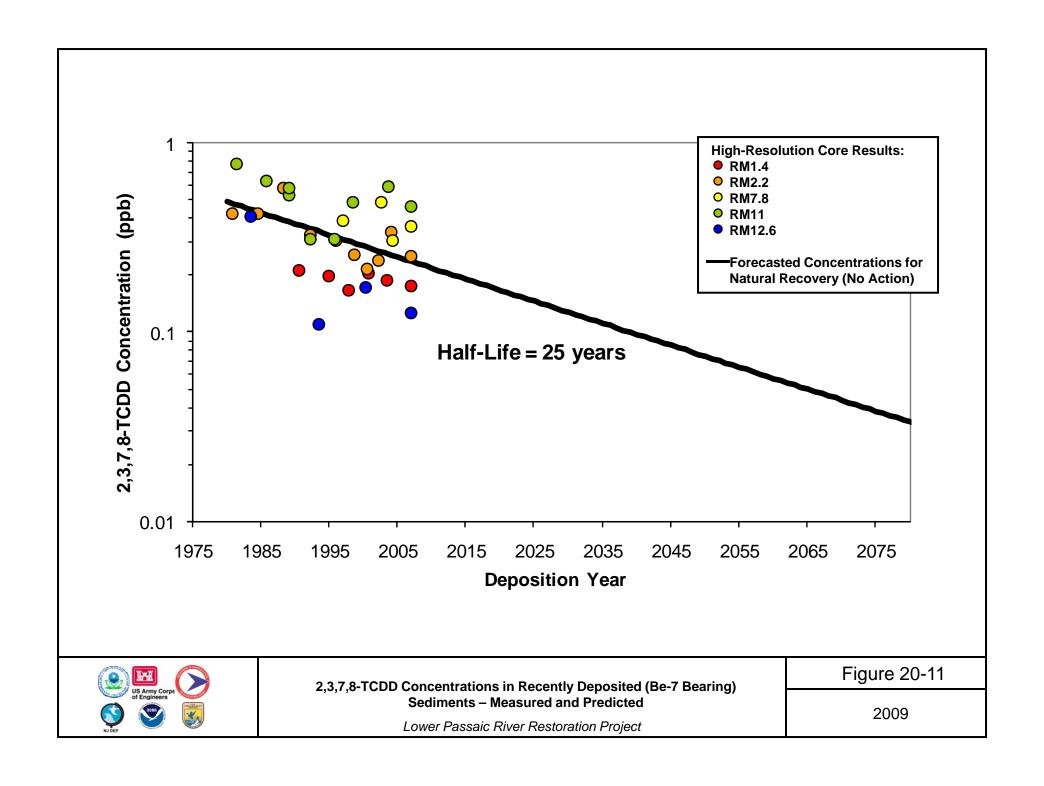
2009

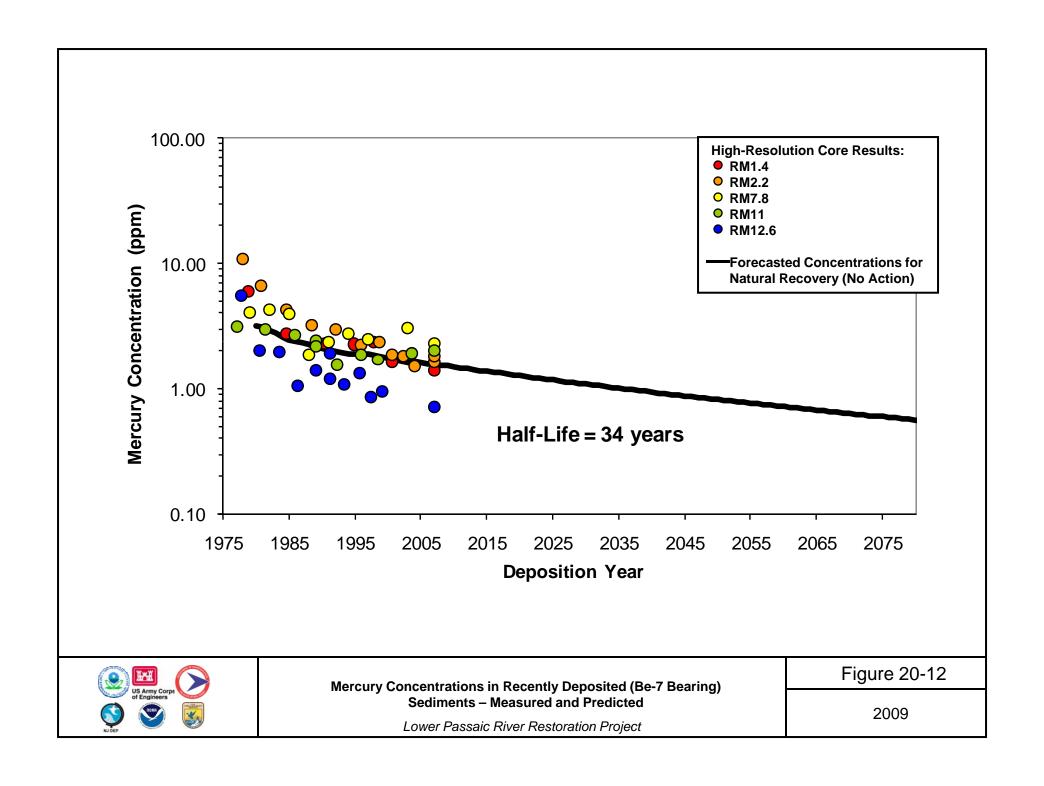
Lower Passaic River Restoration Project

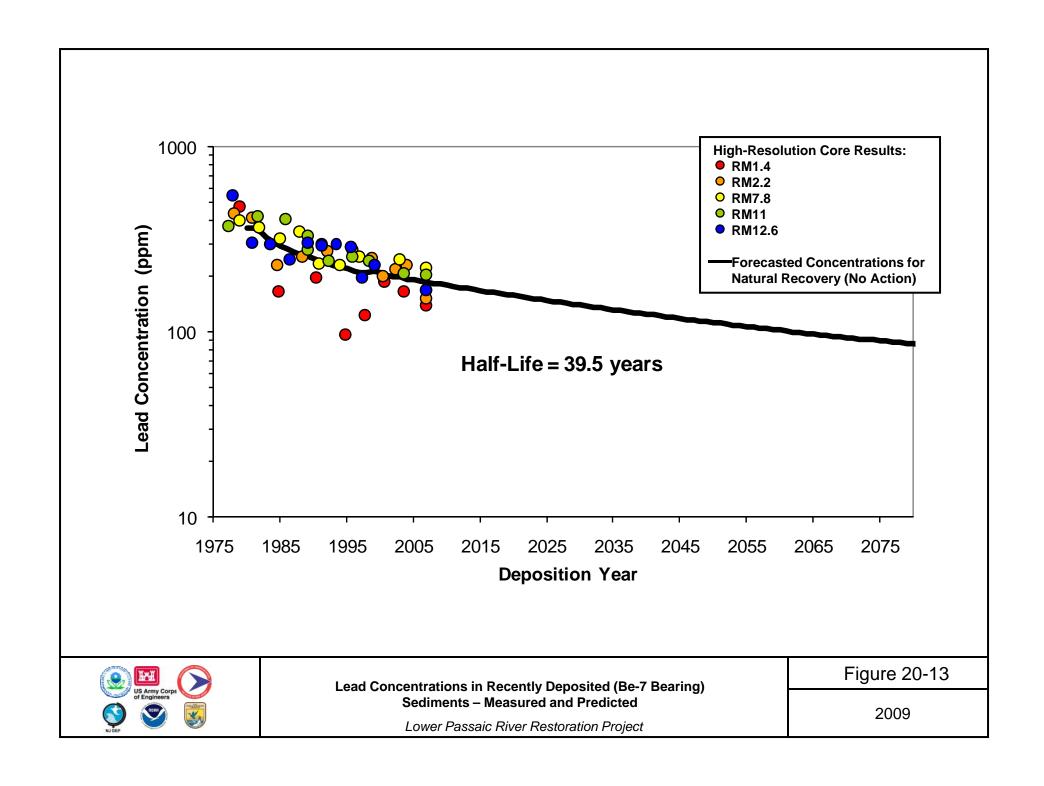


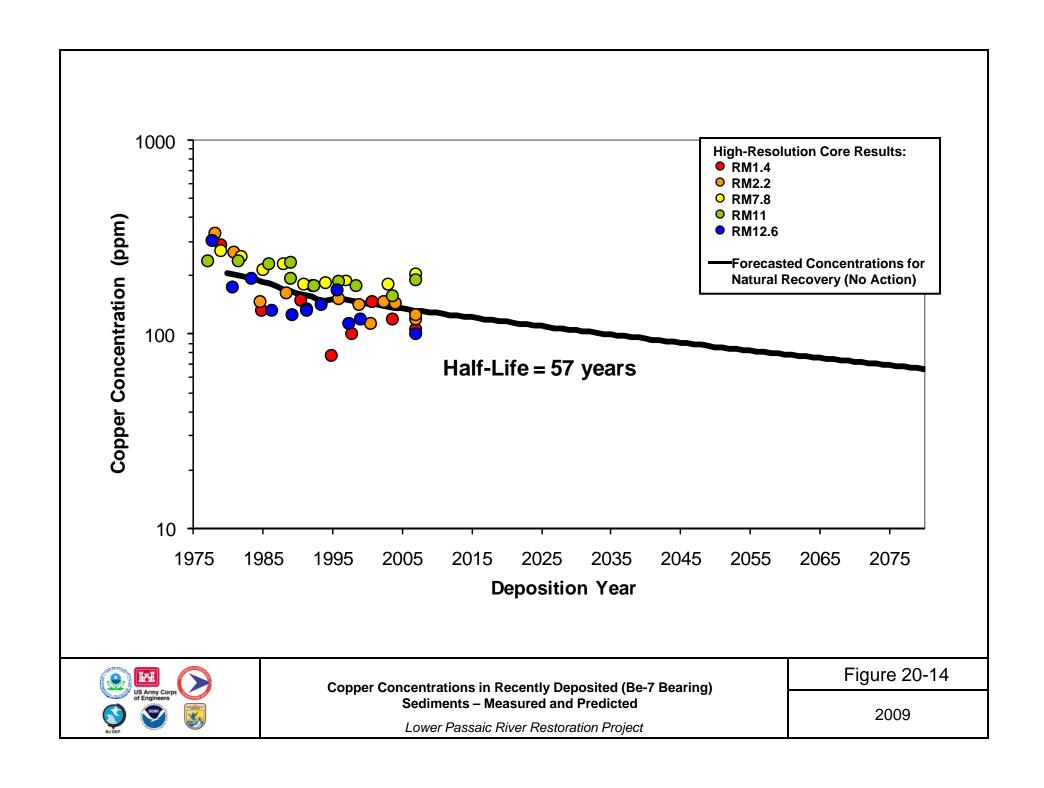


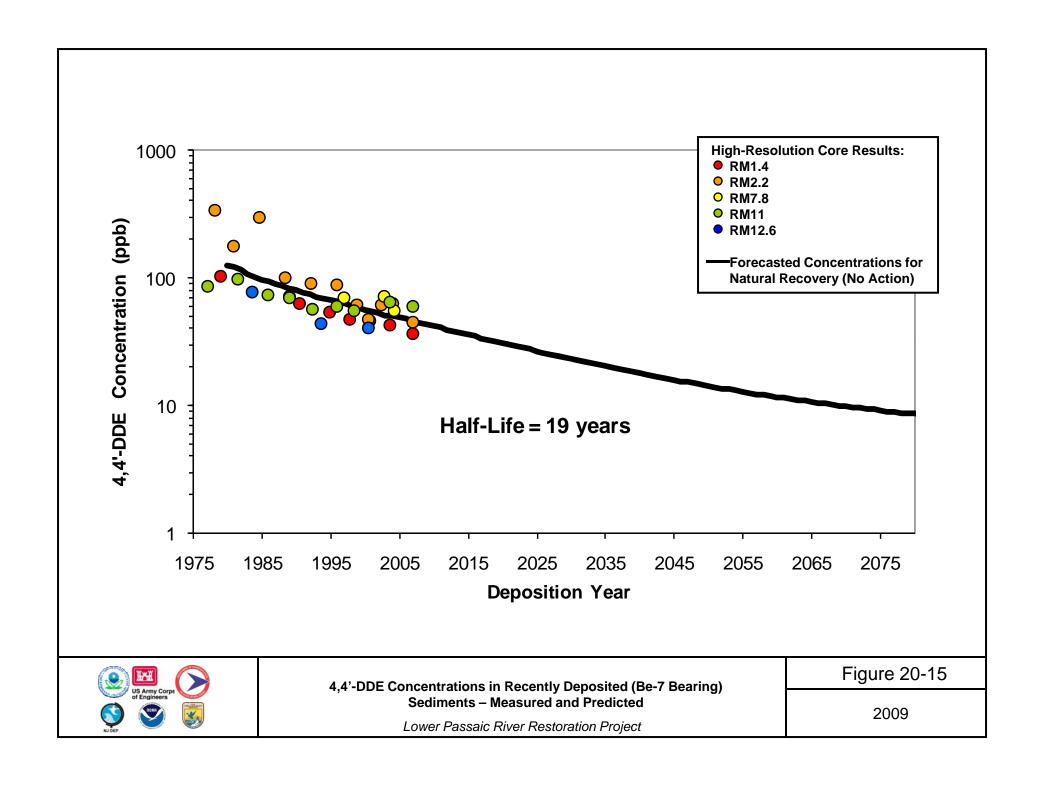


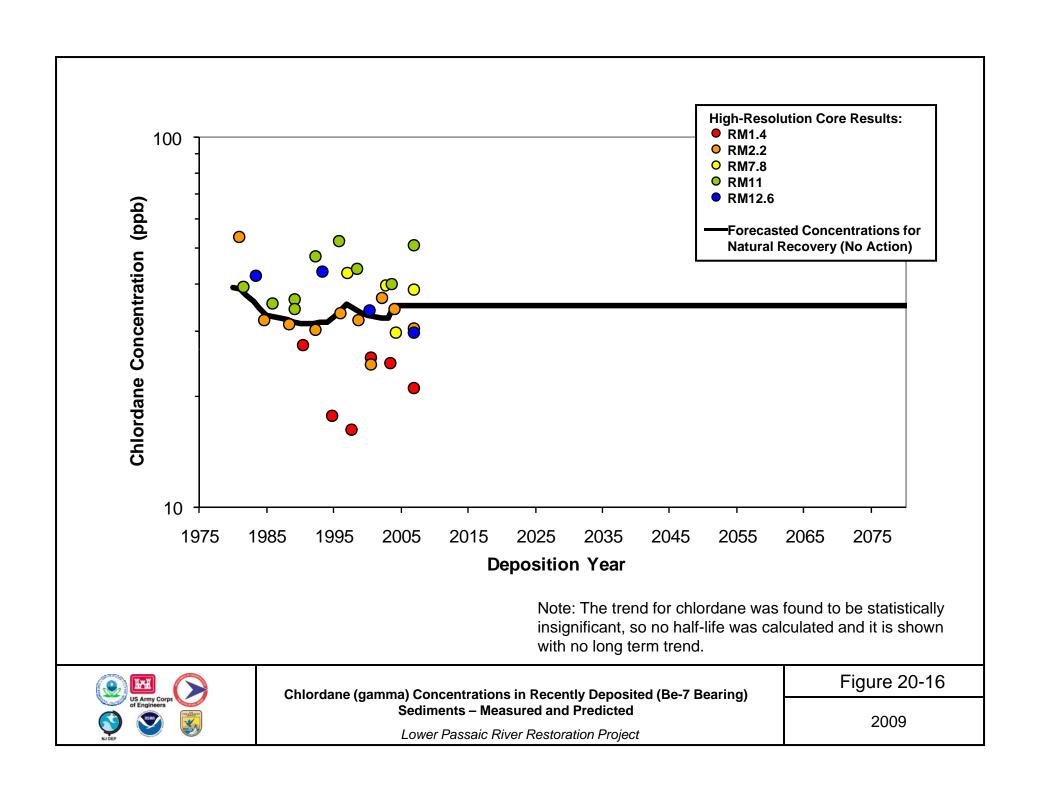


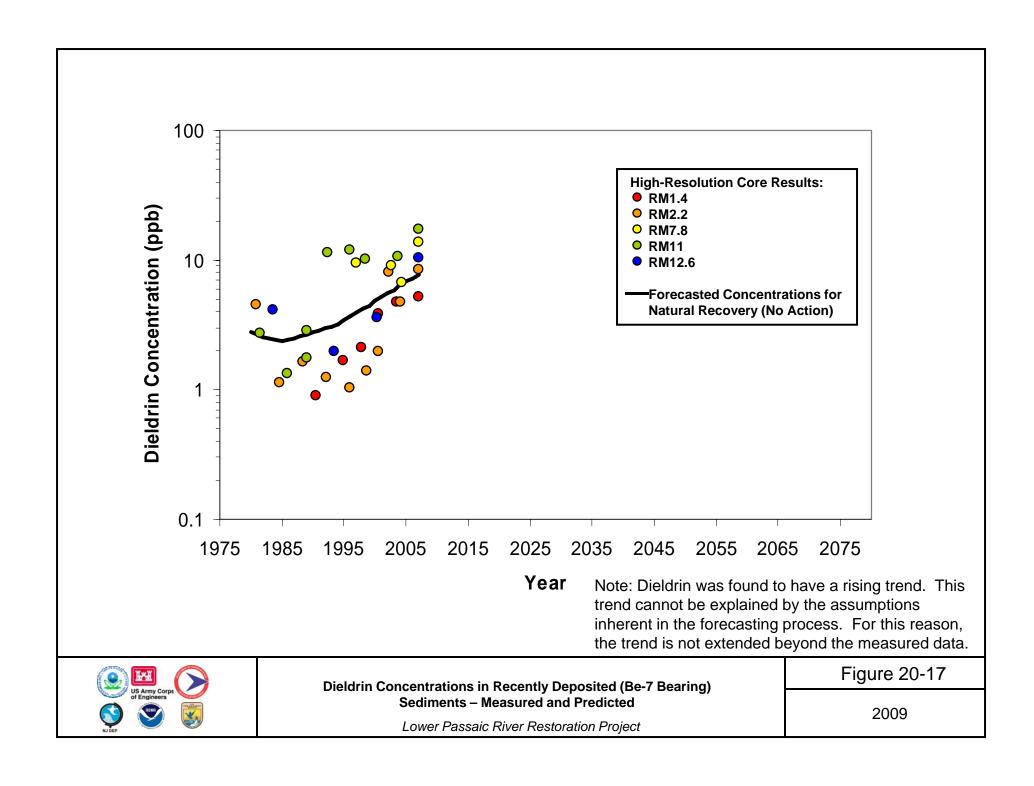


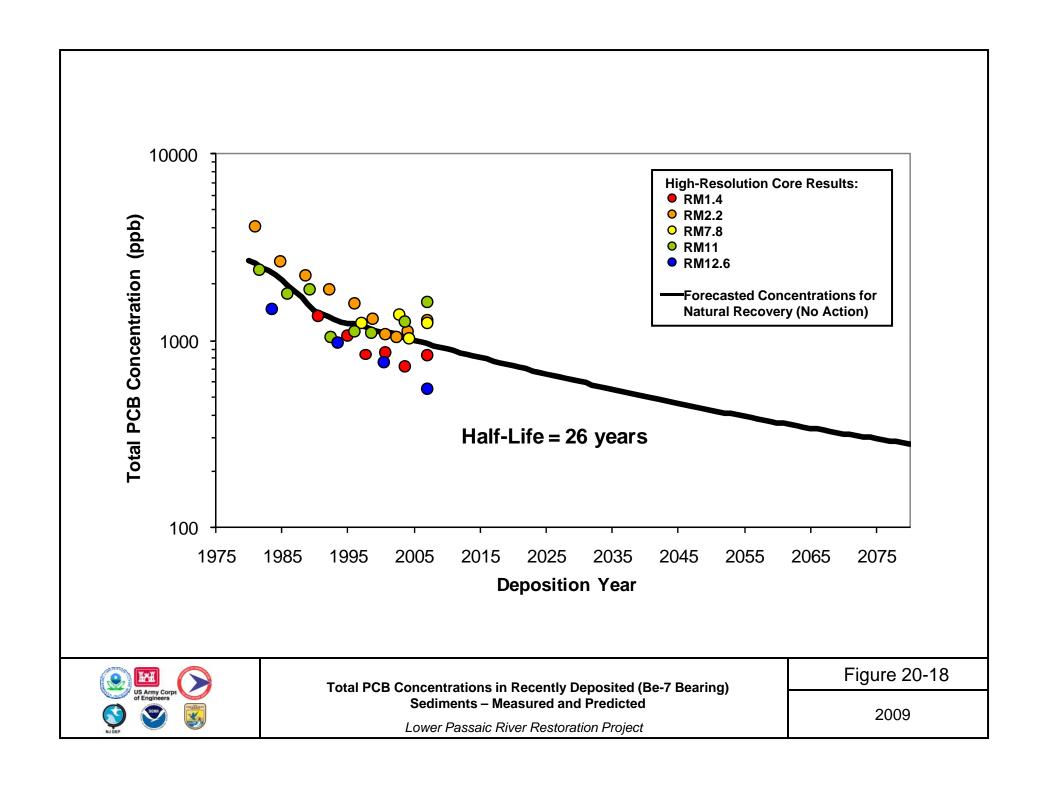


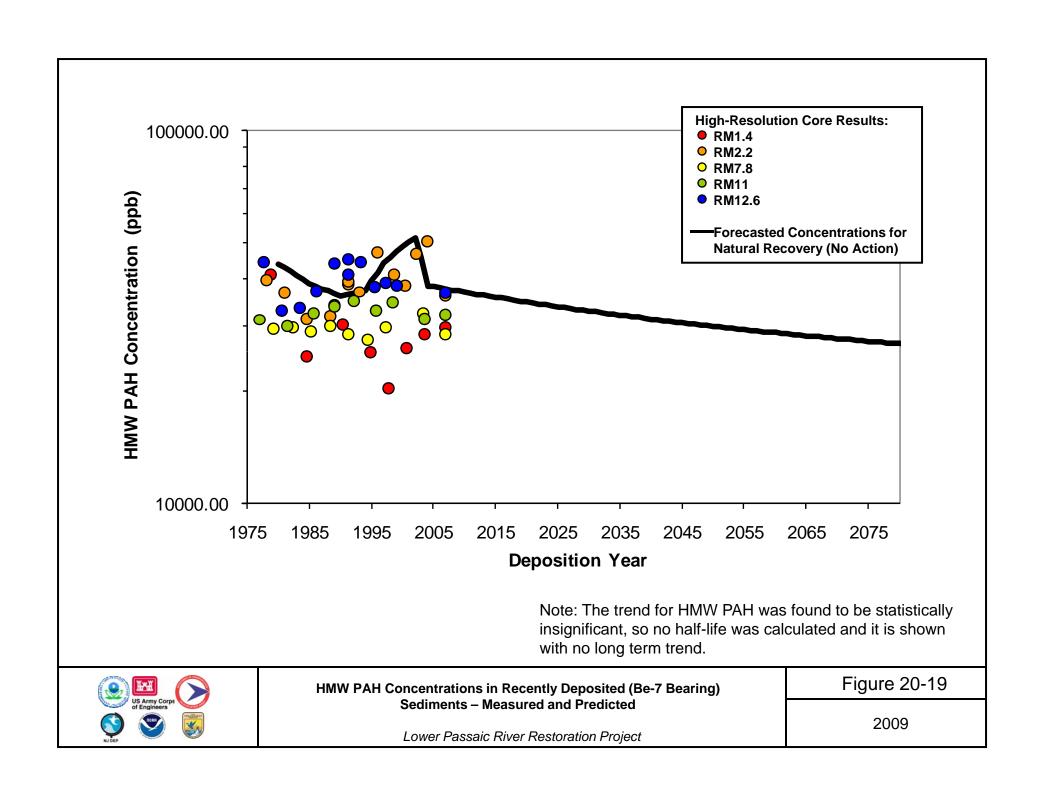


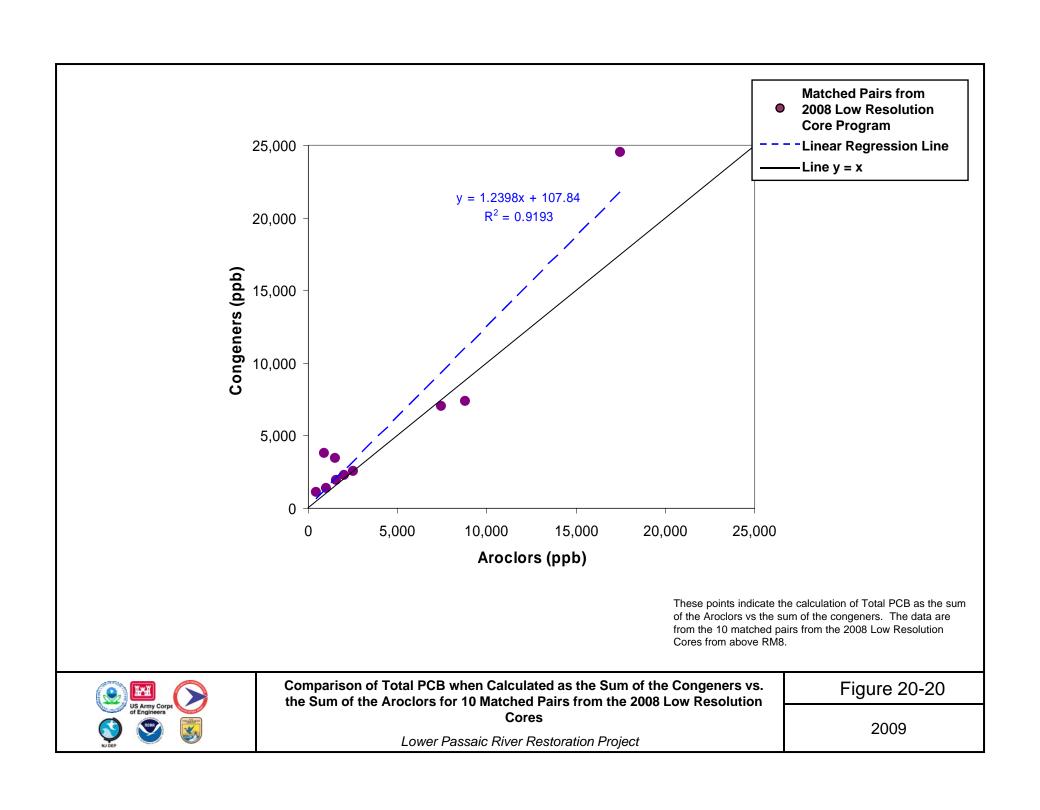


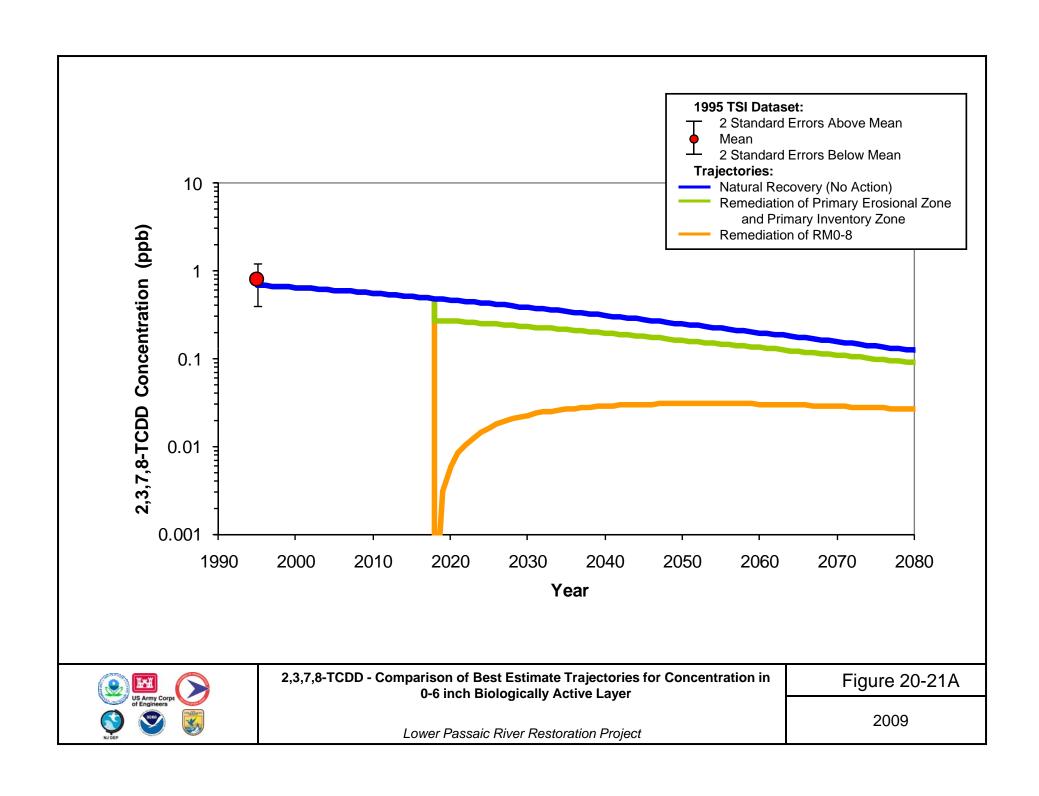


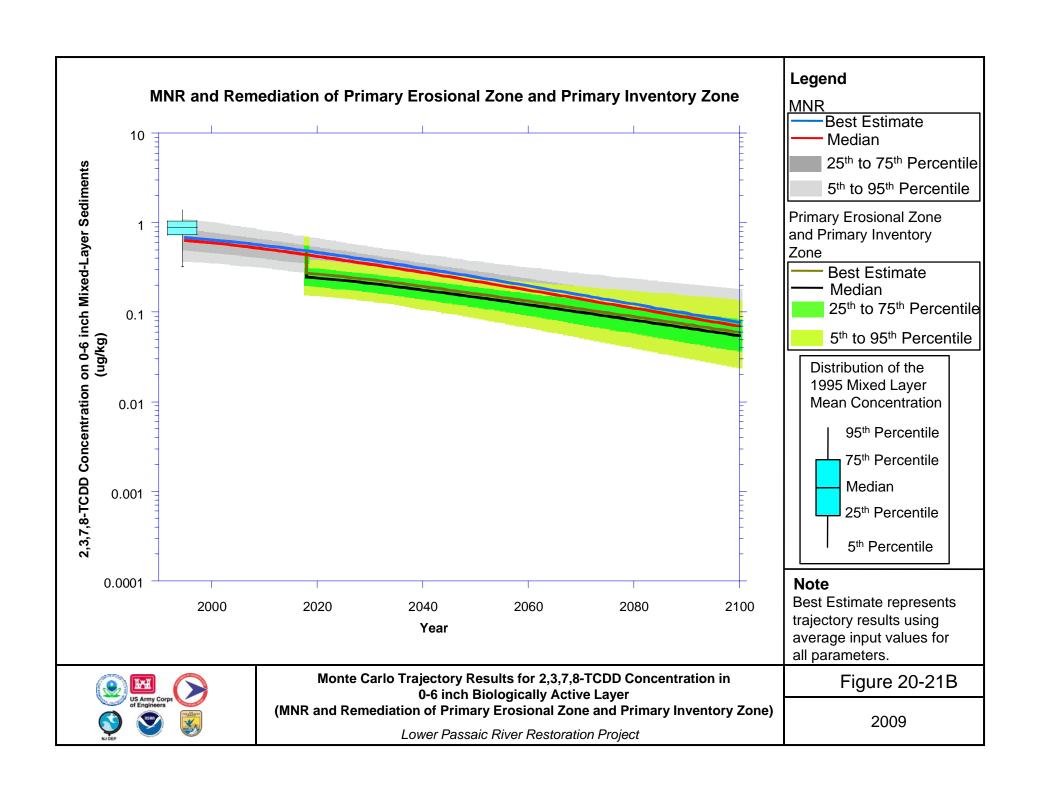


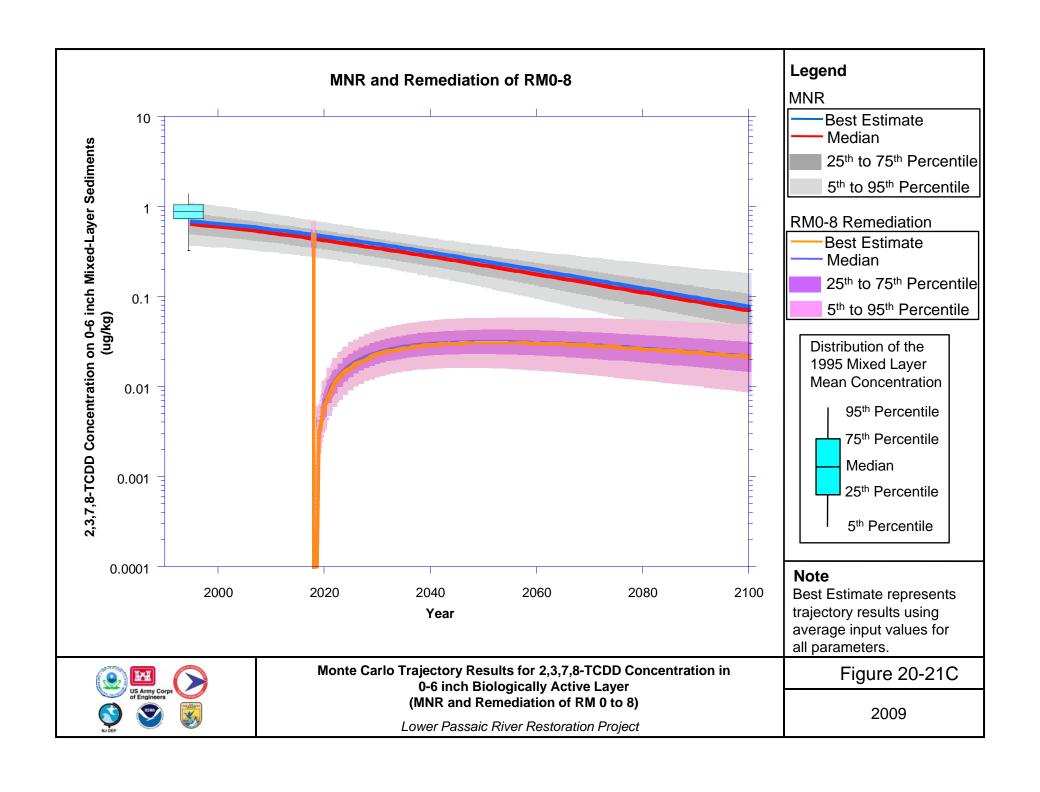


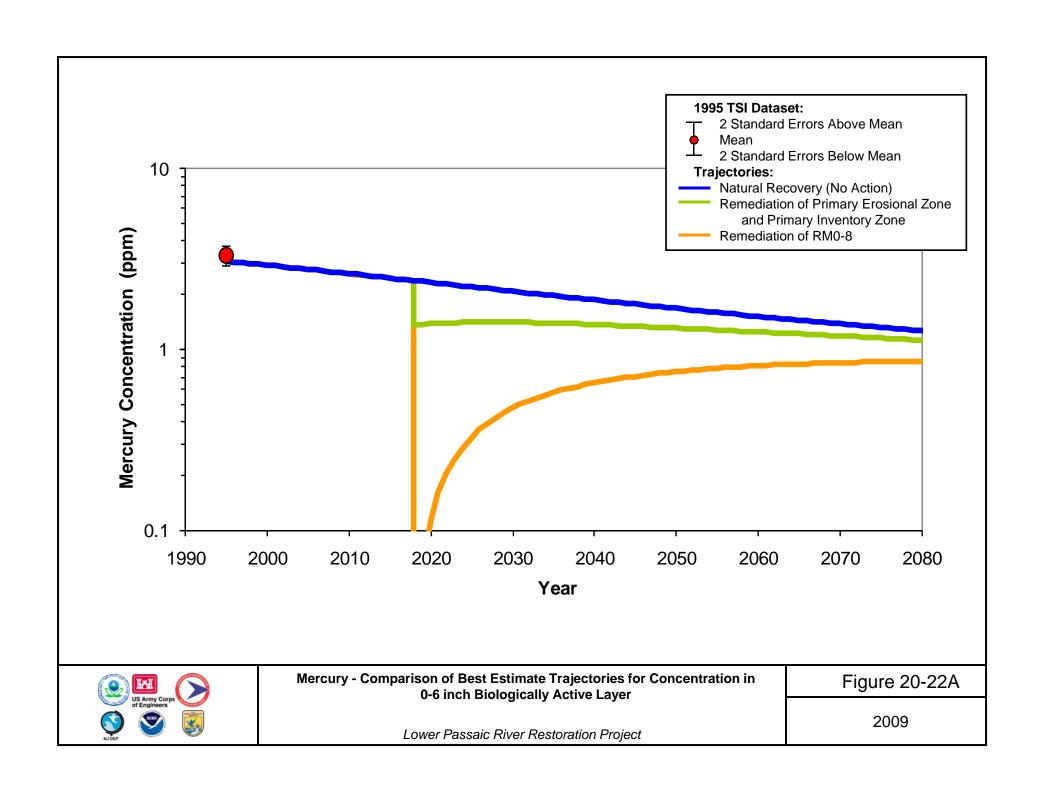


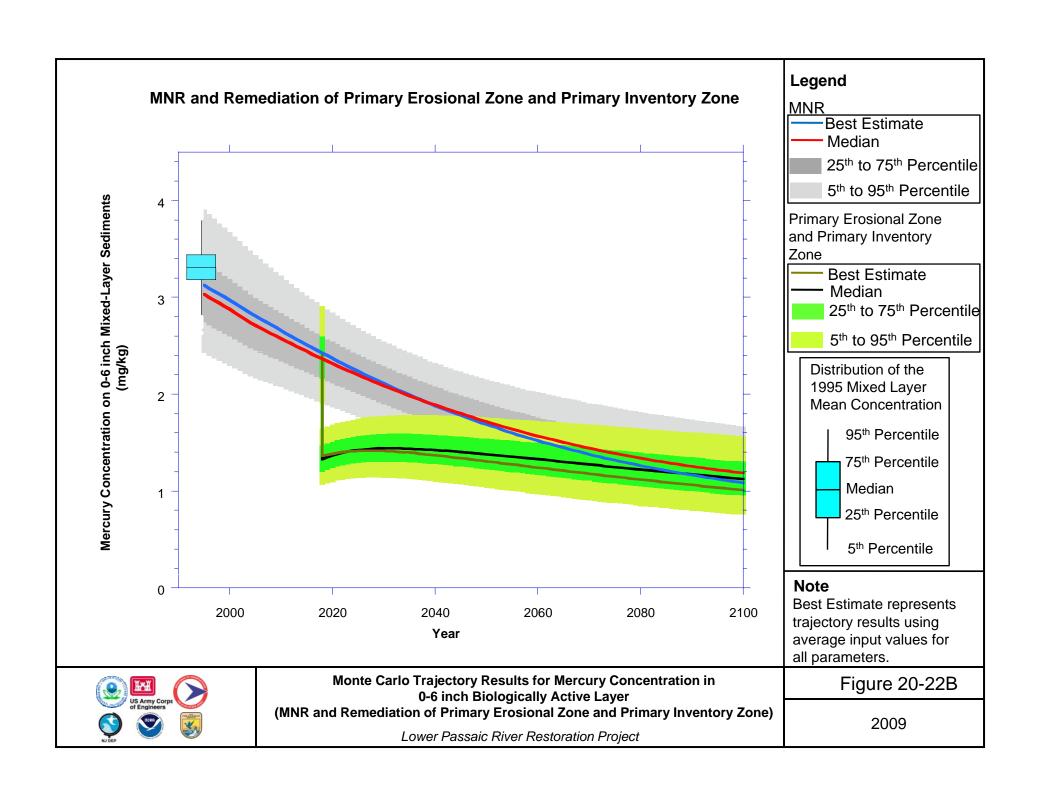


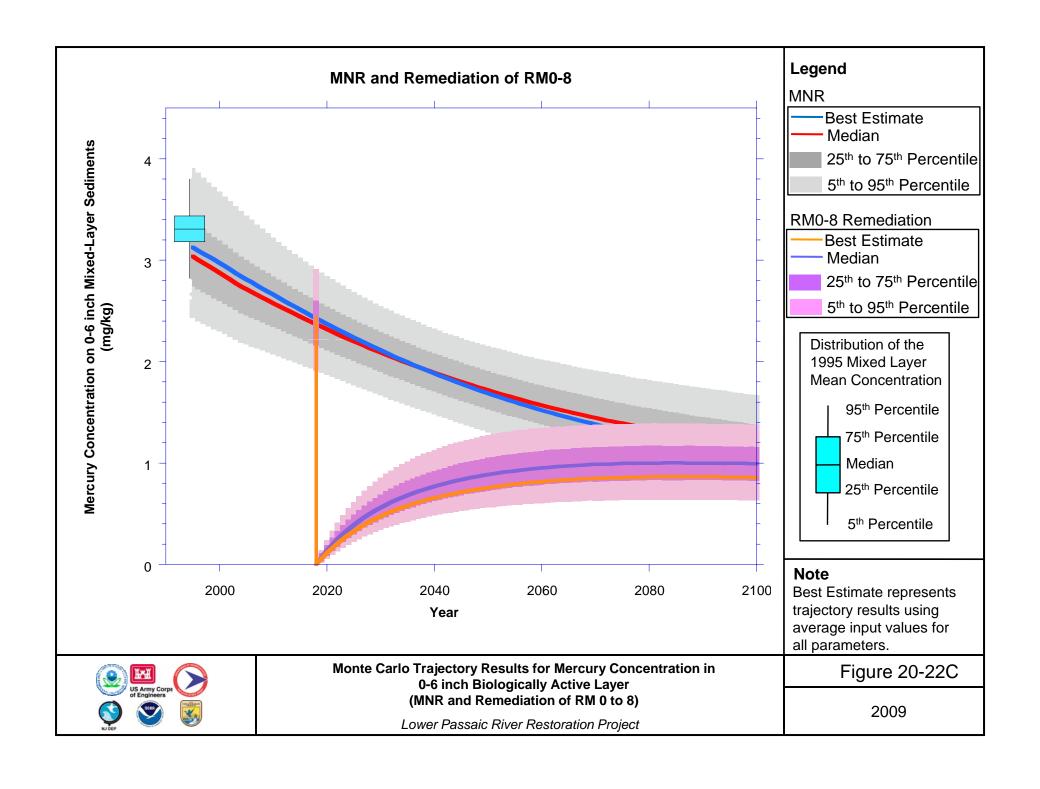


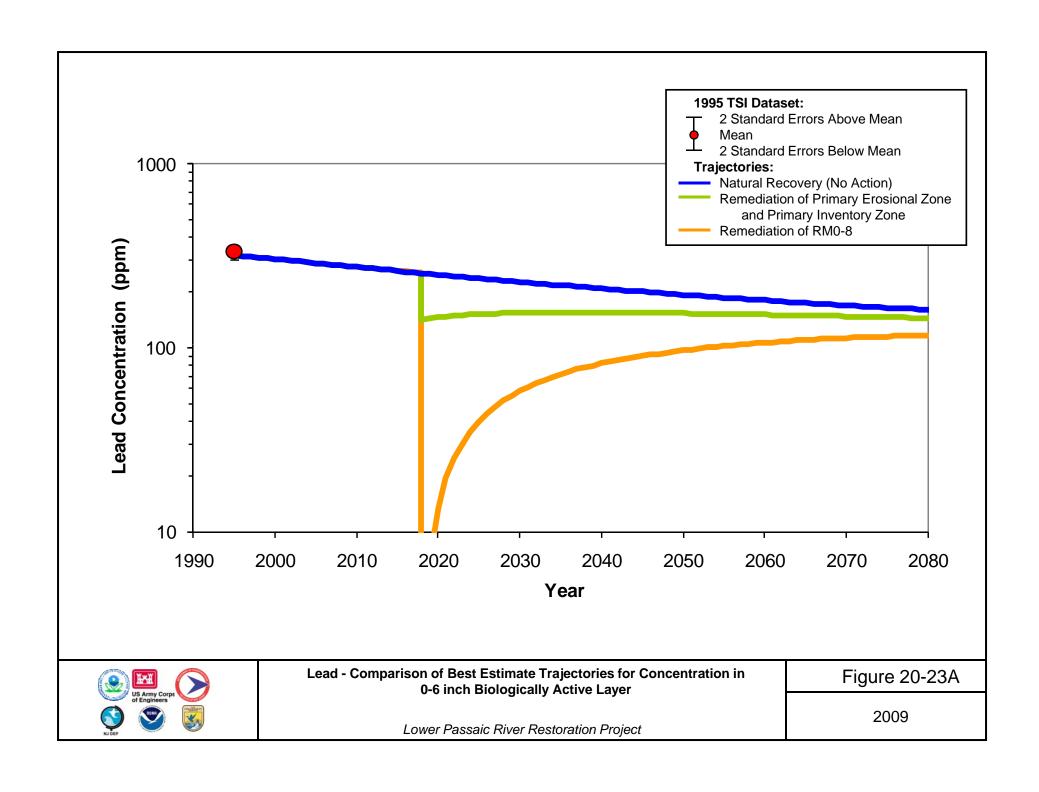


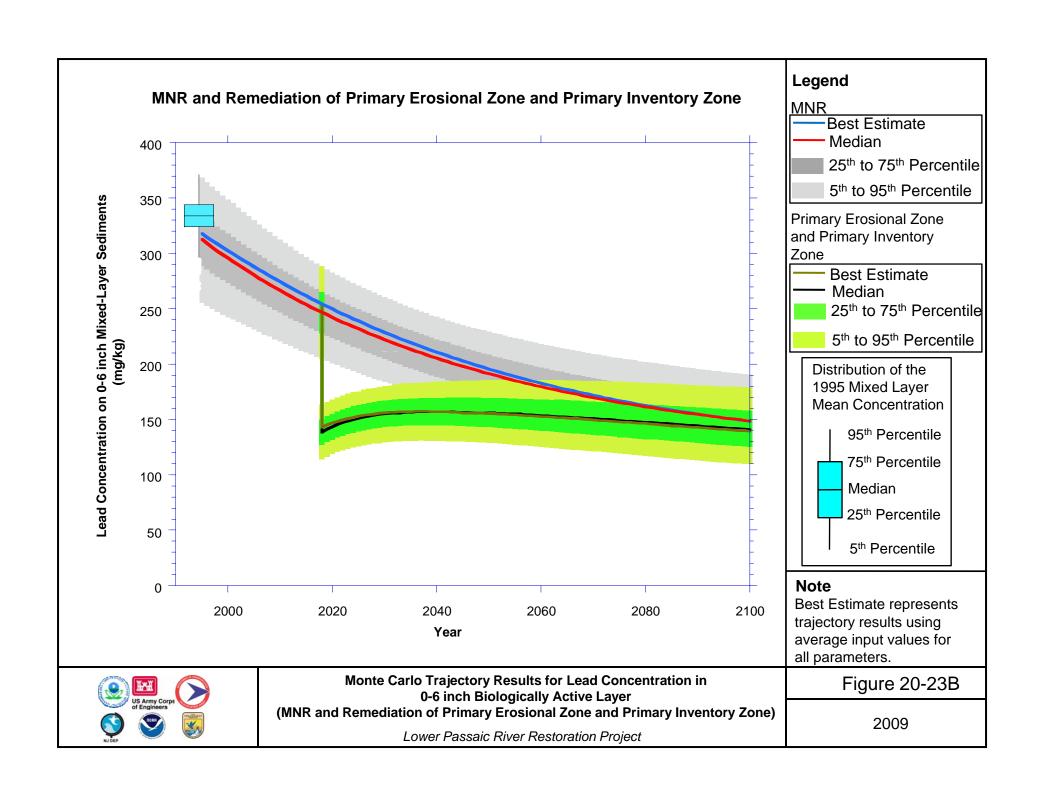


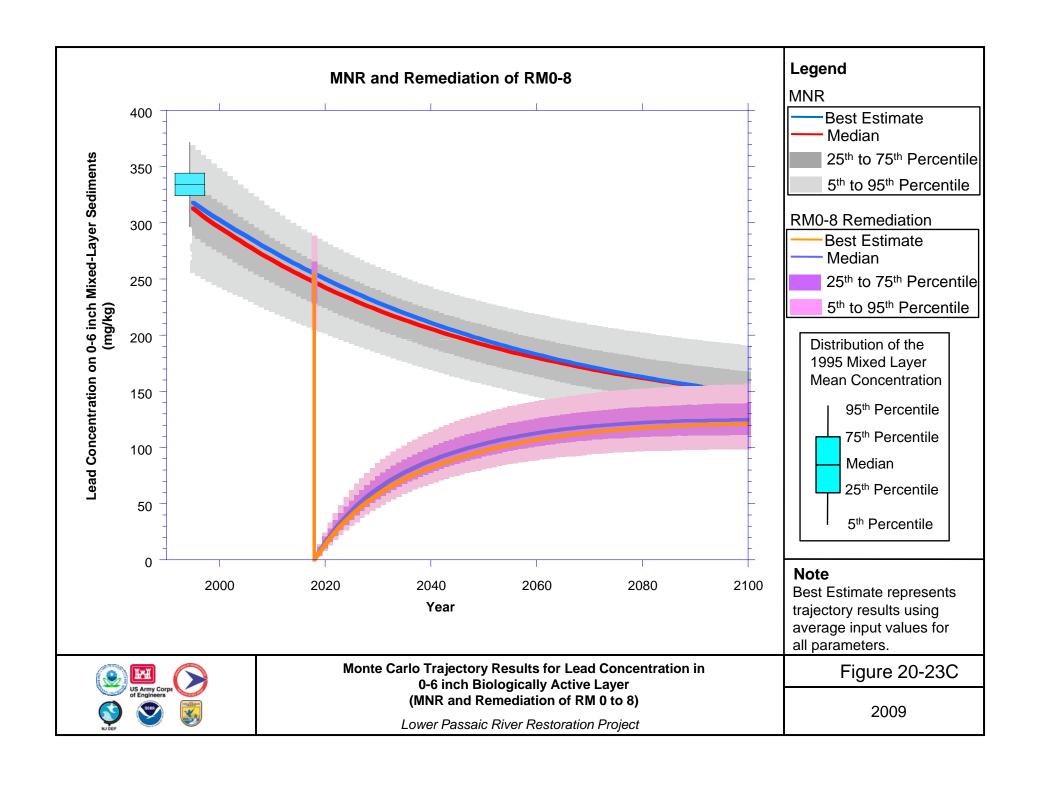


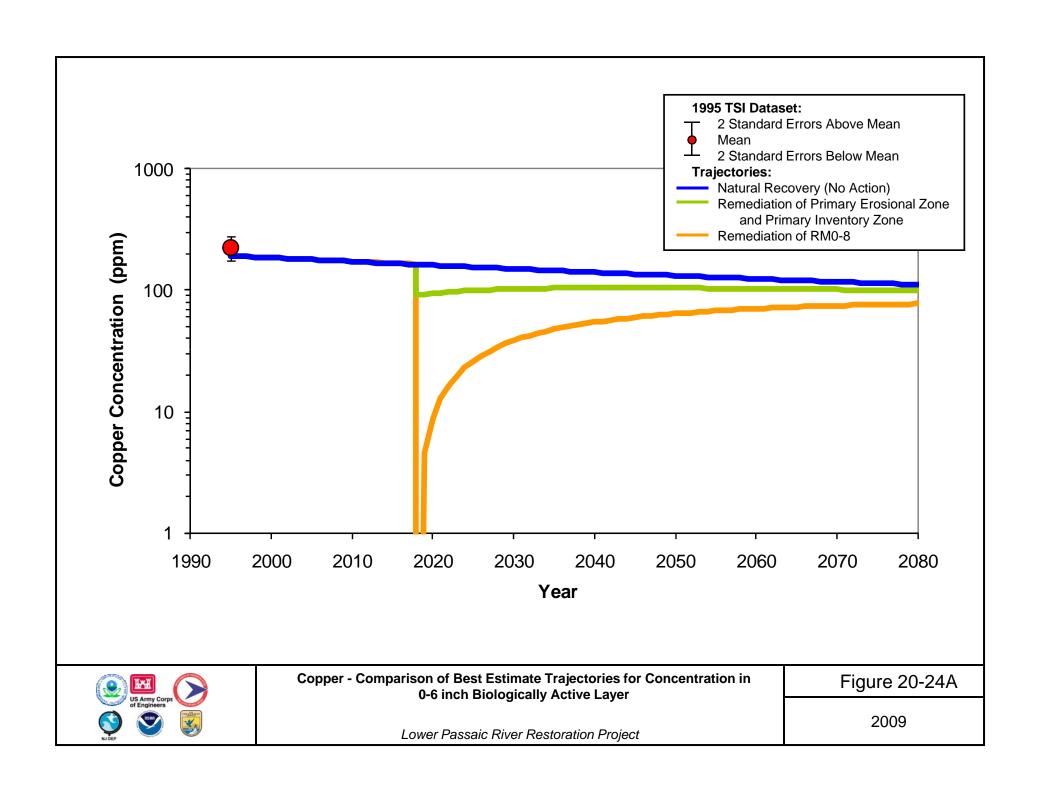


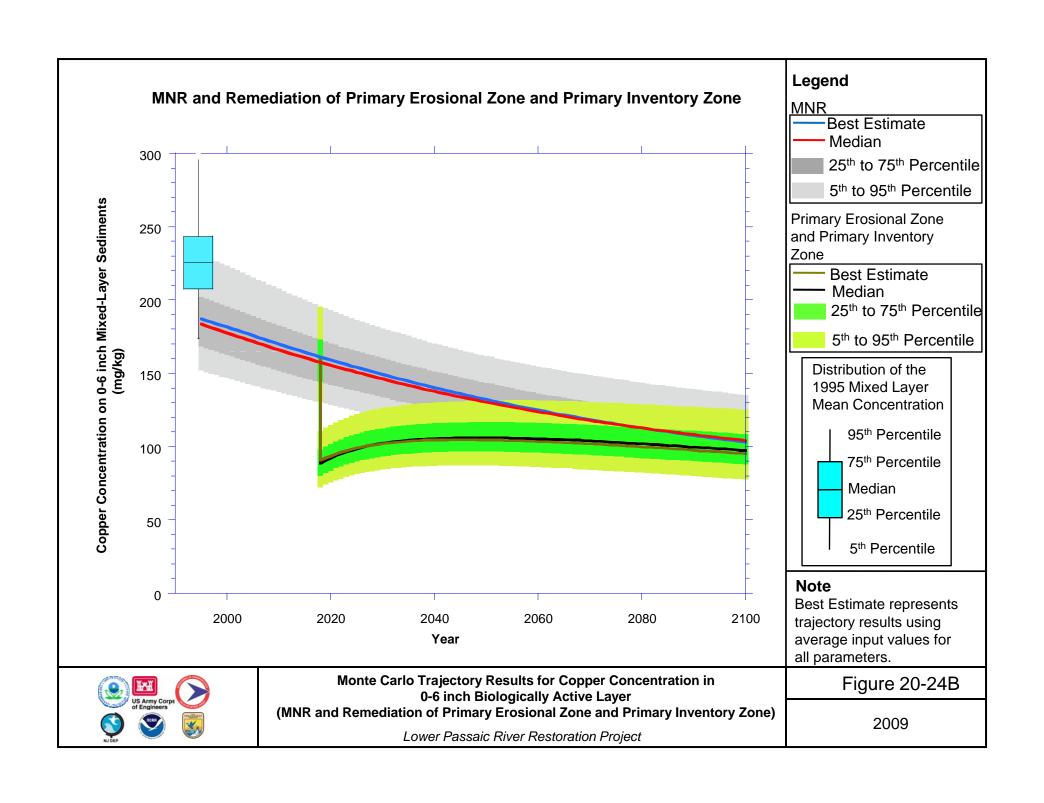


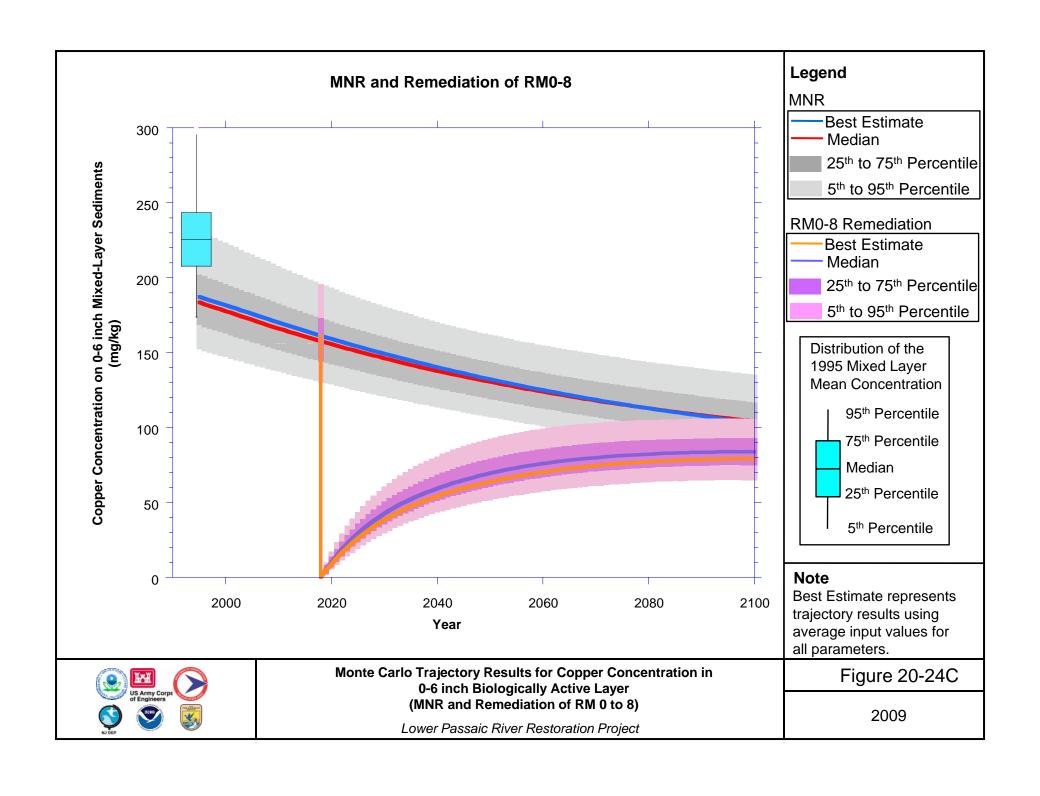


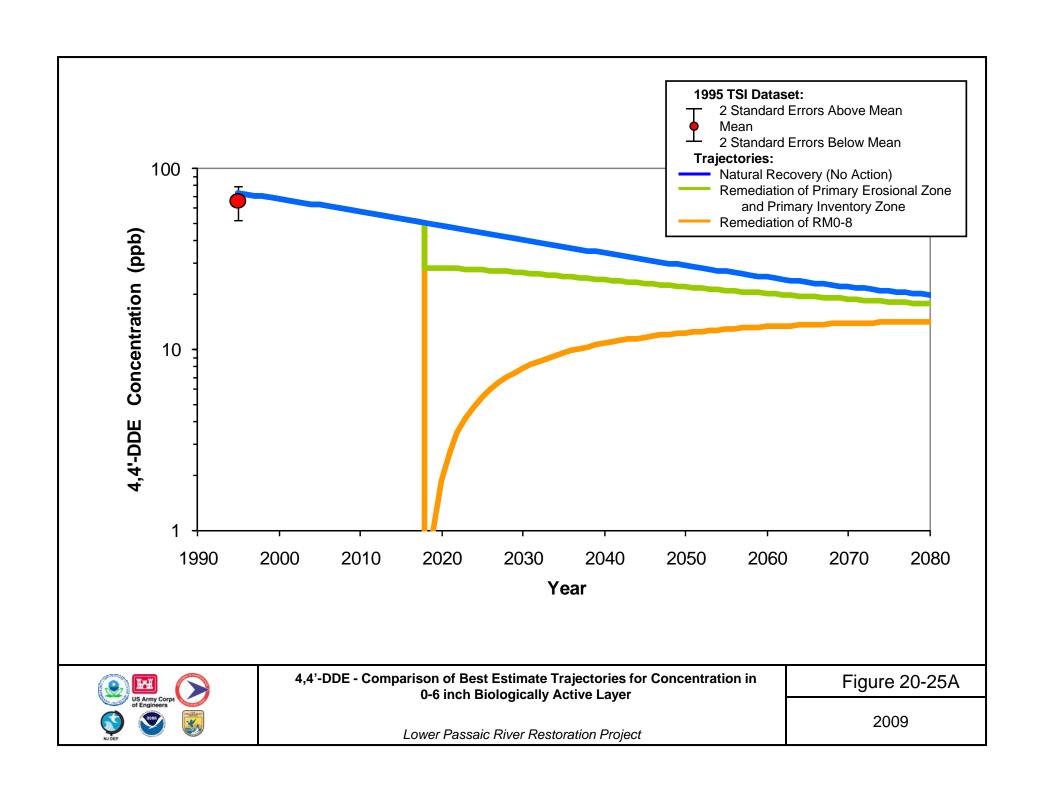


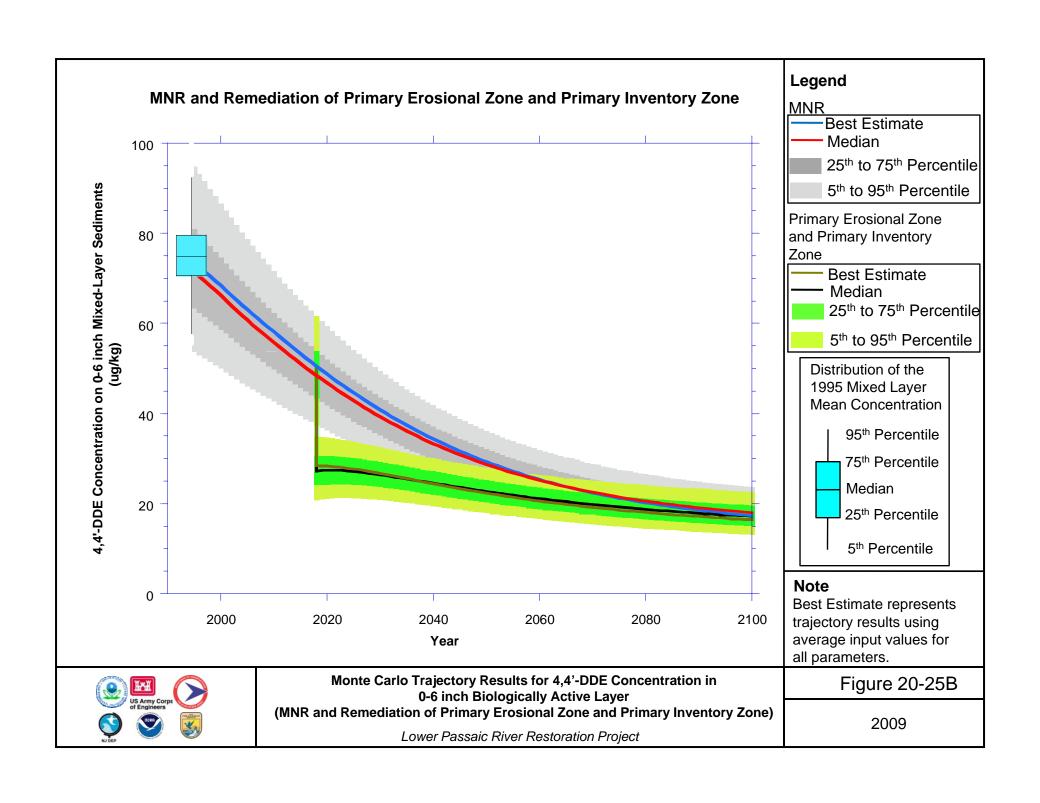


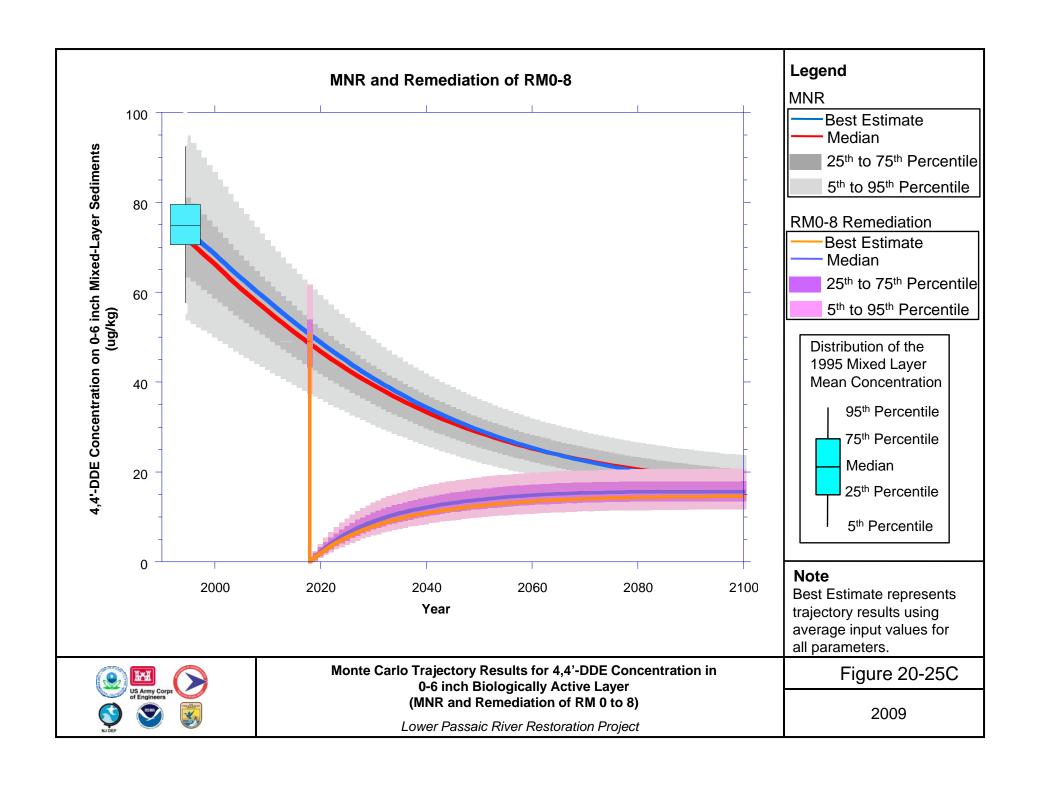


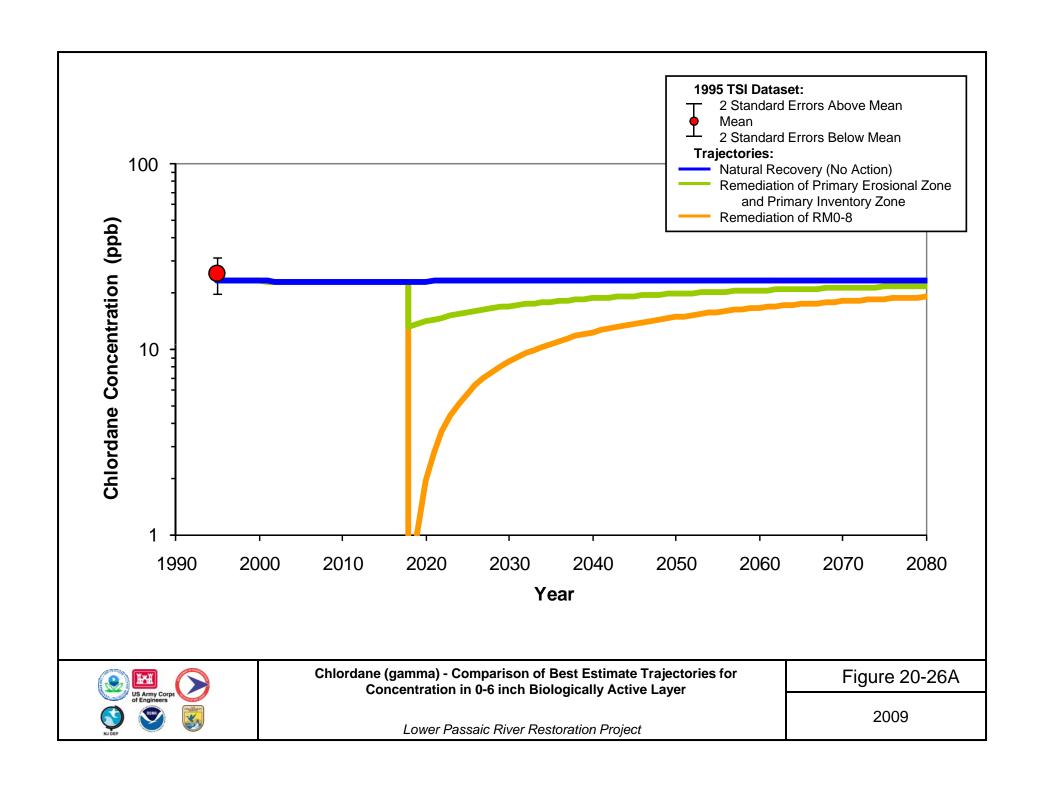


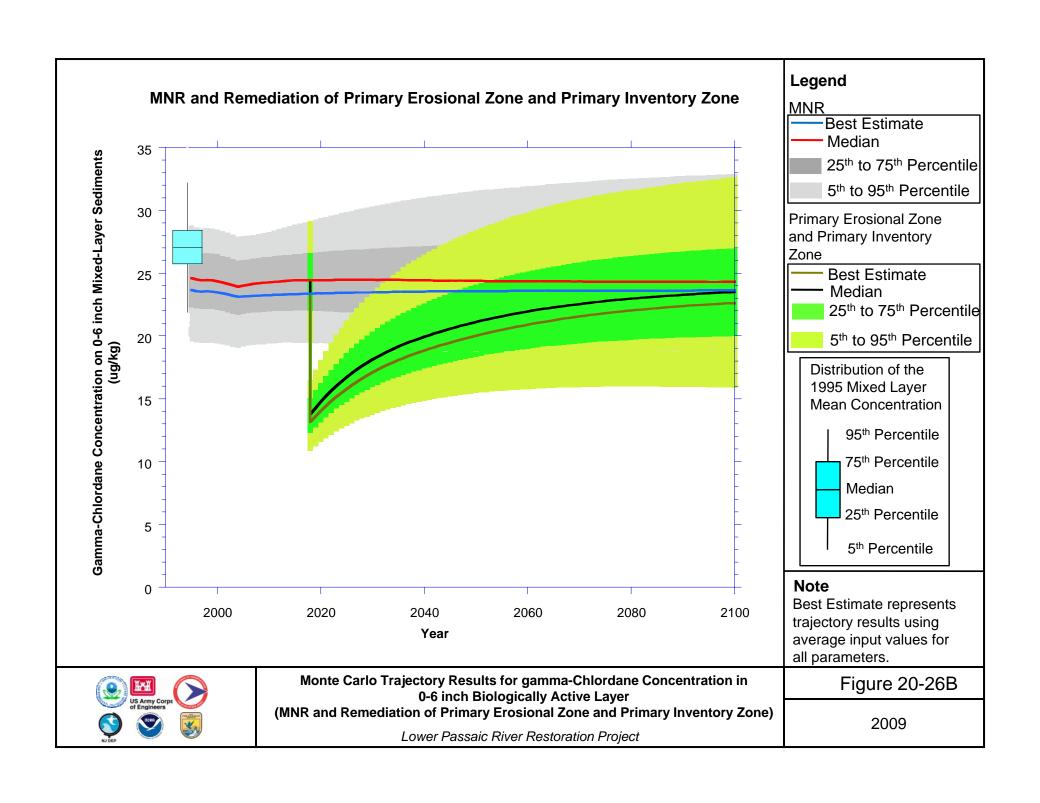


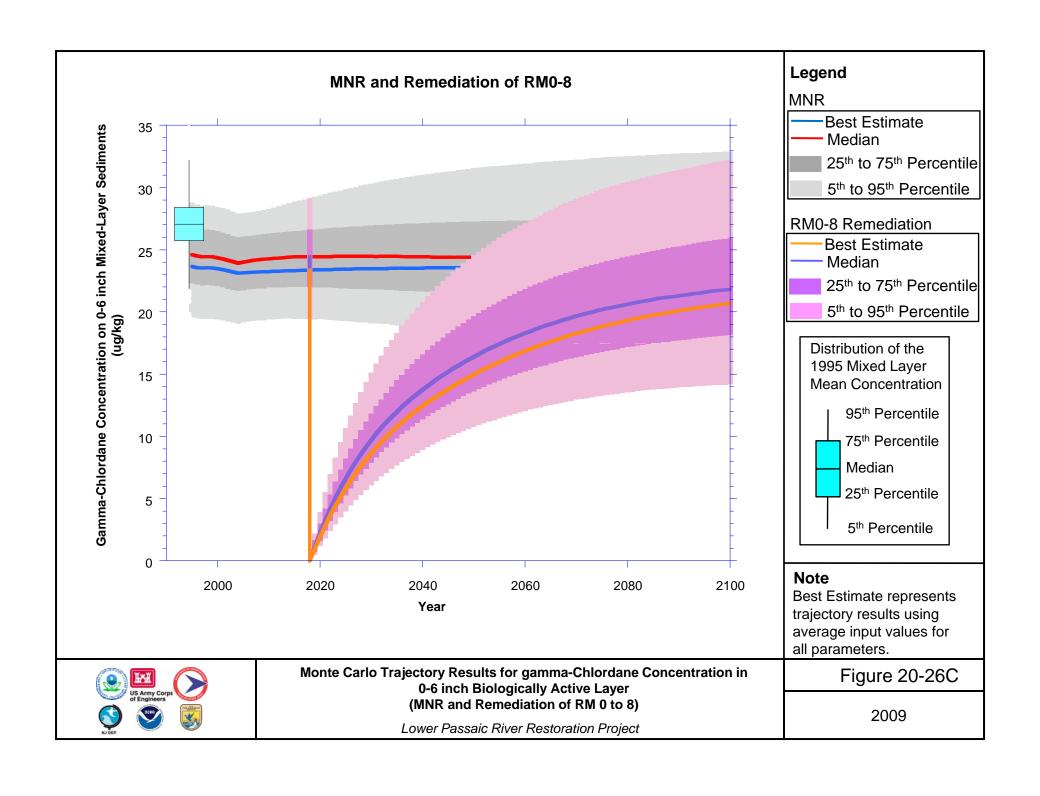


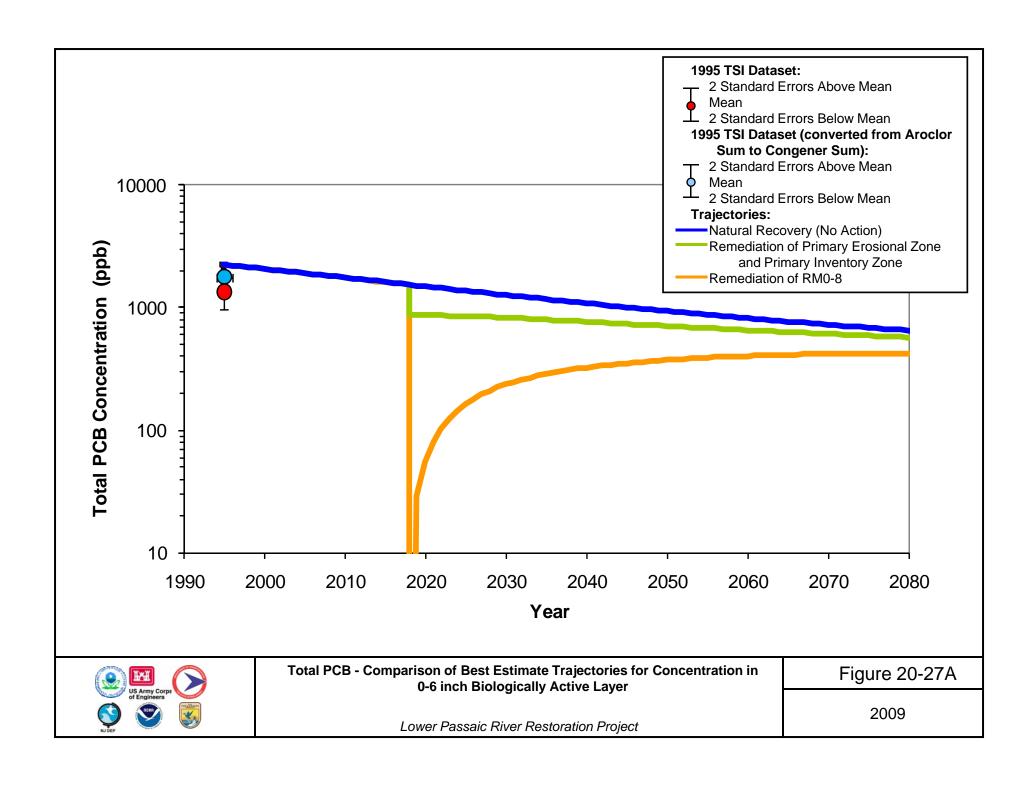


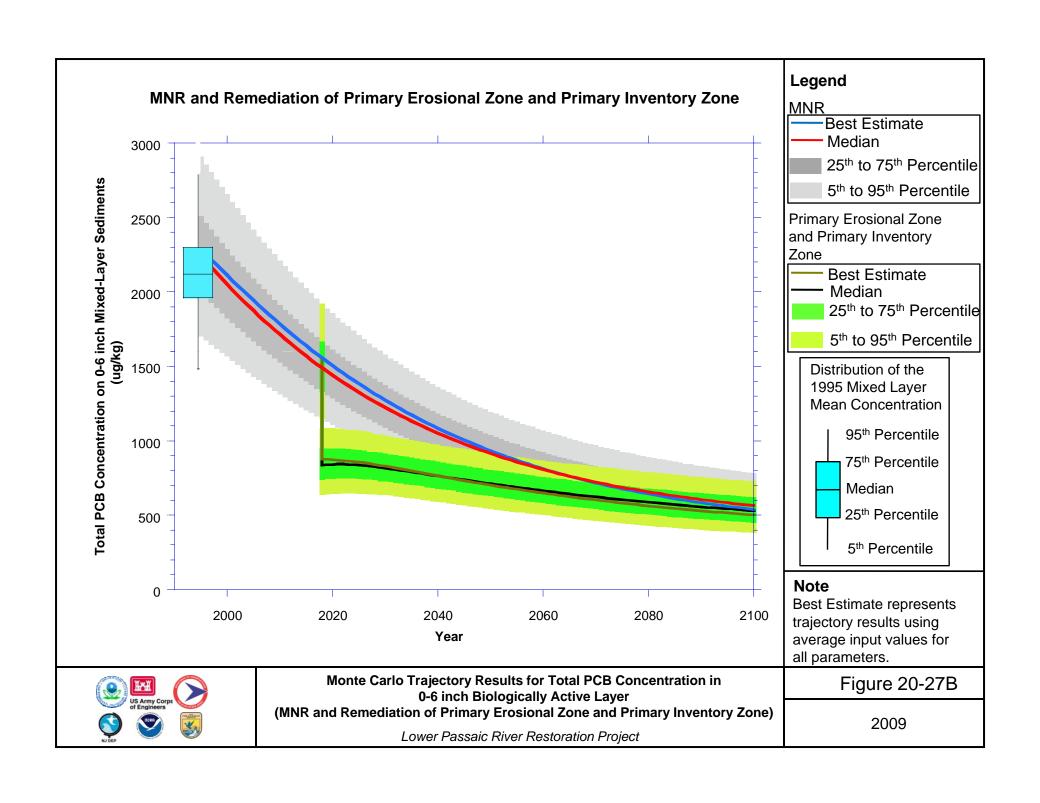


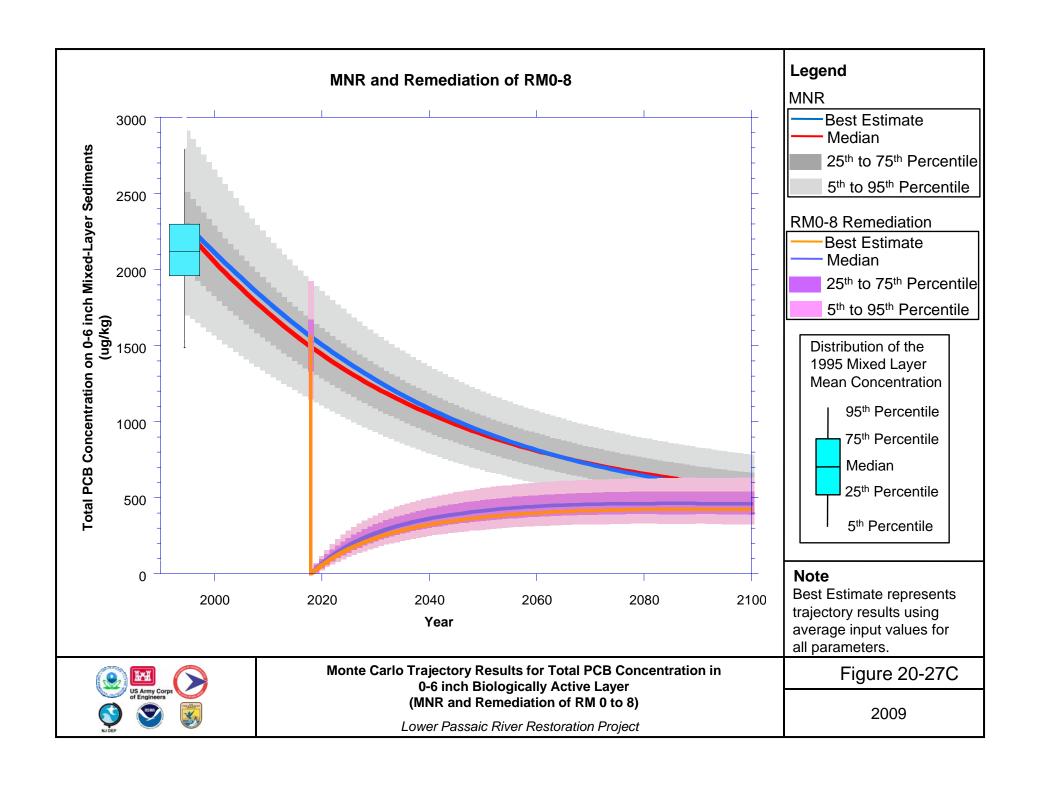


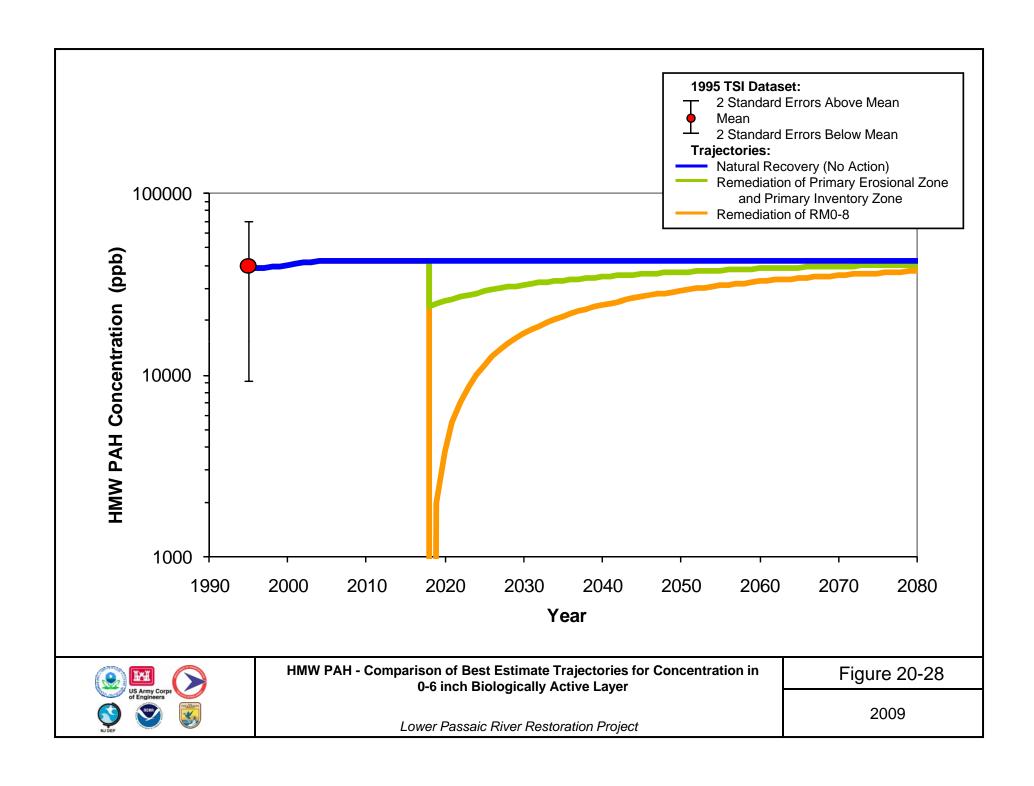


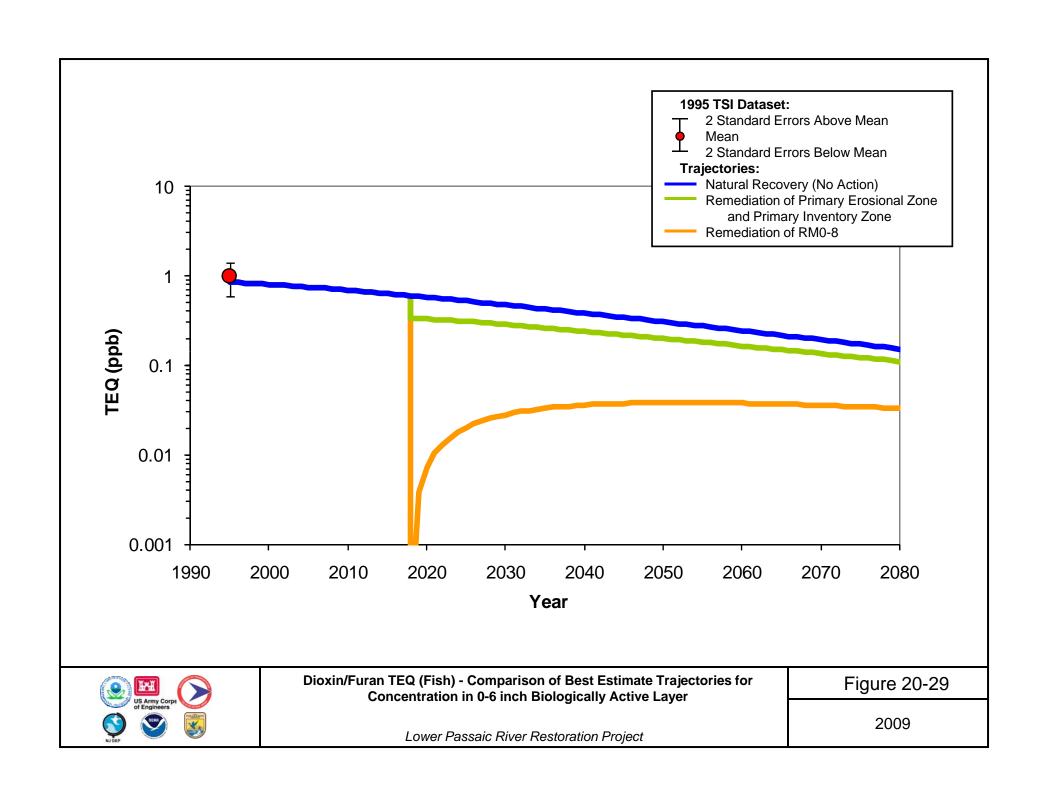


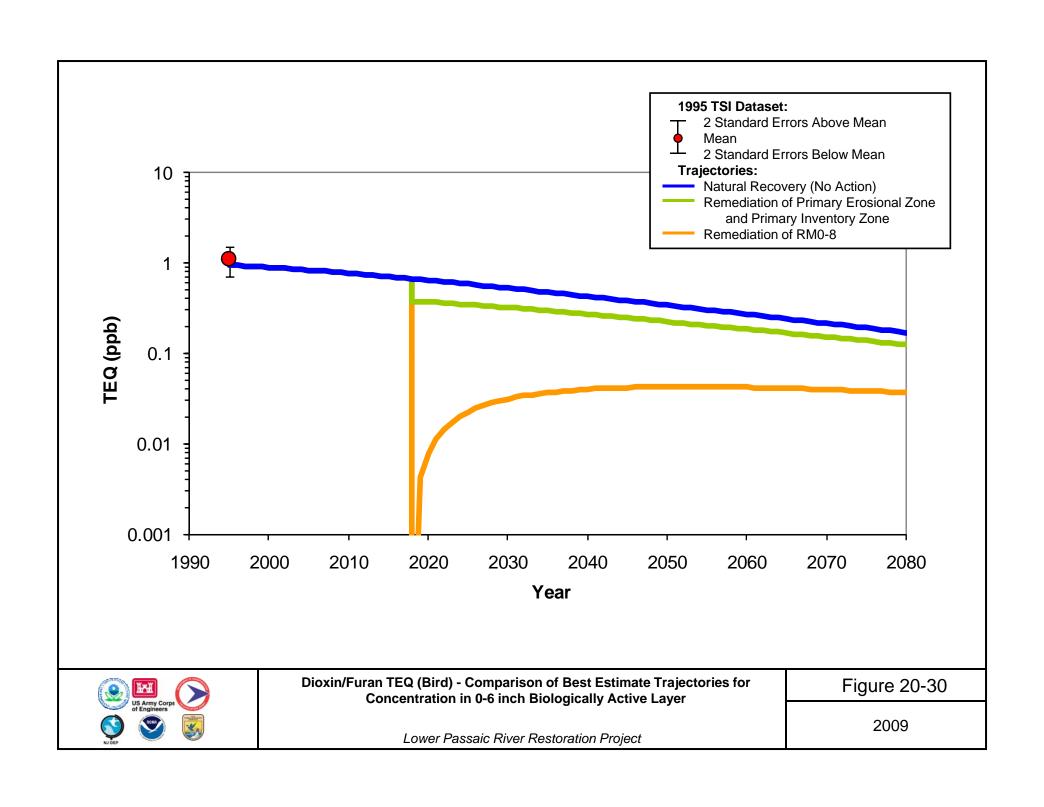


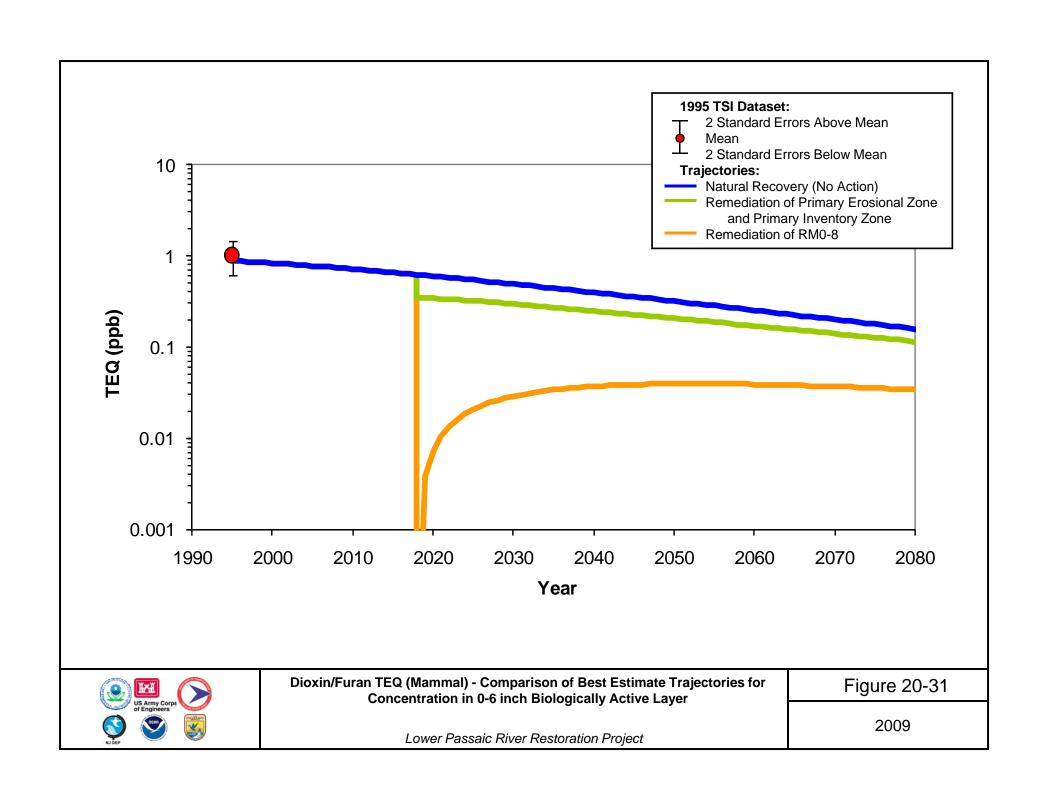


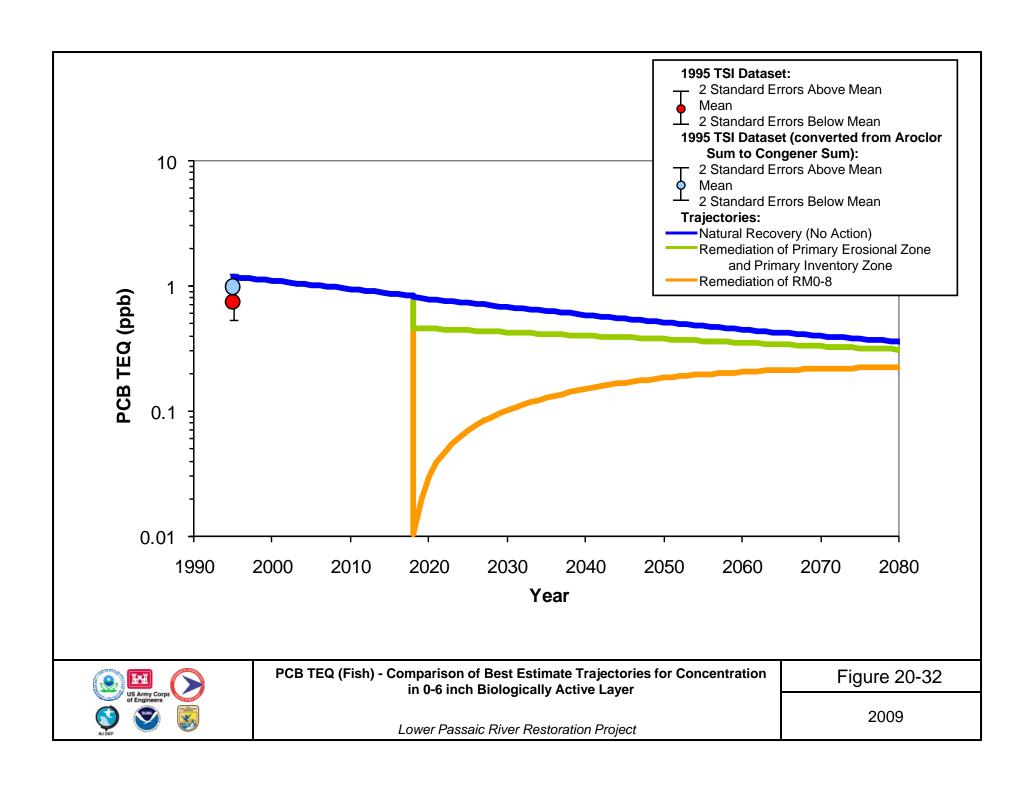


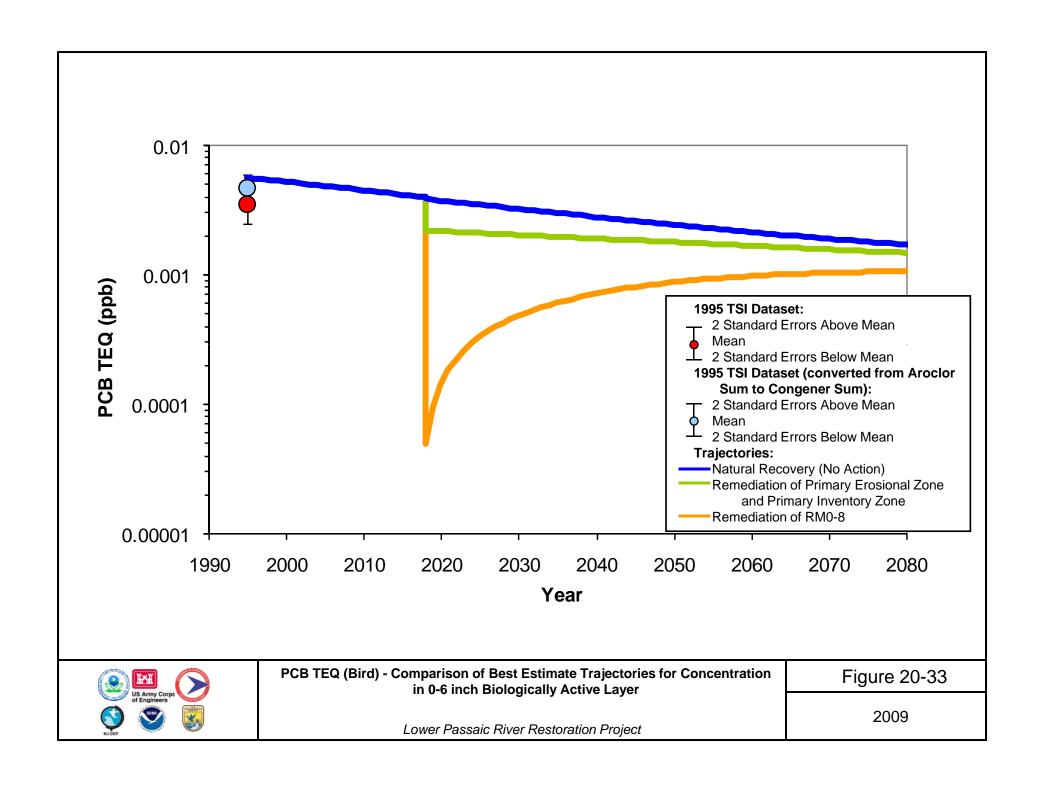


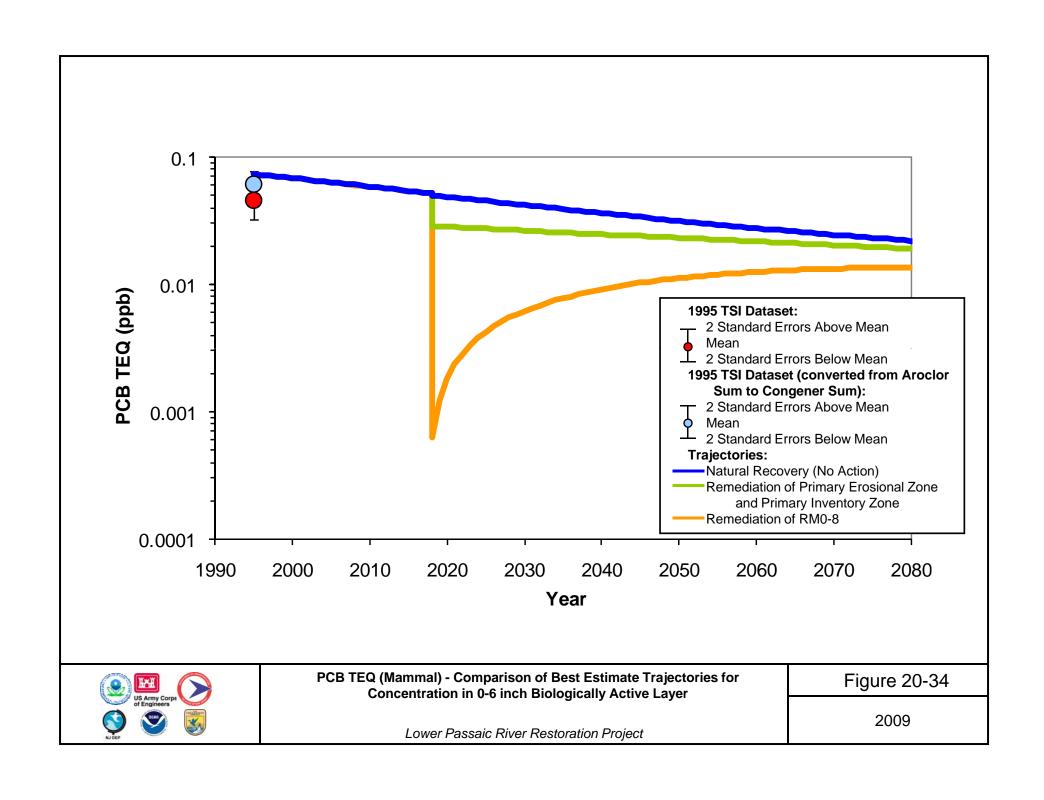






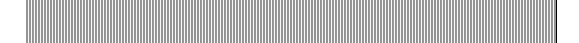


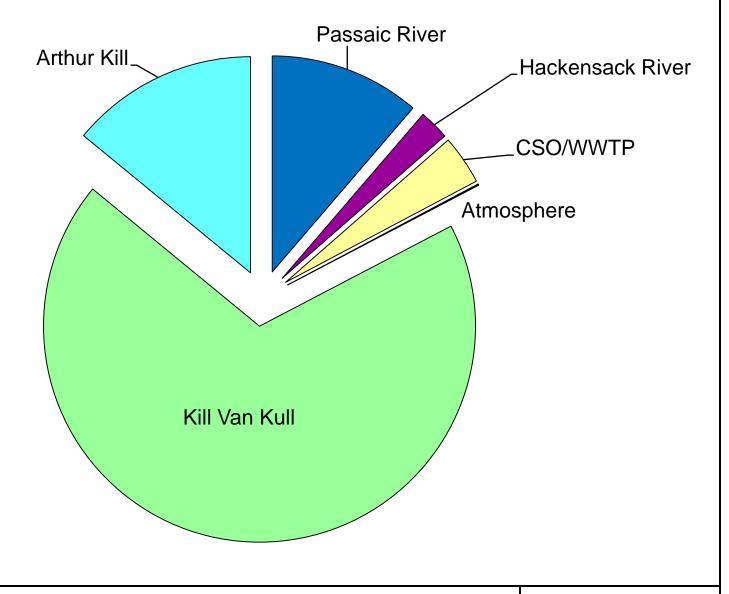






## **Chapter 21 Figures**



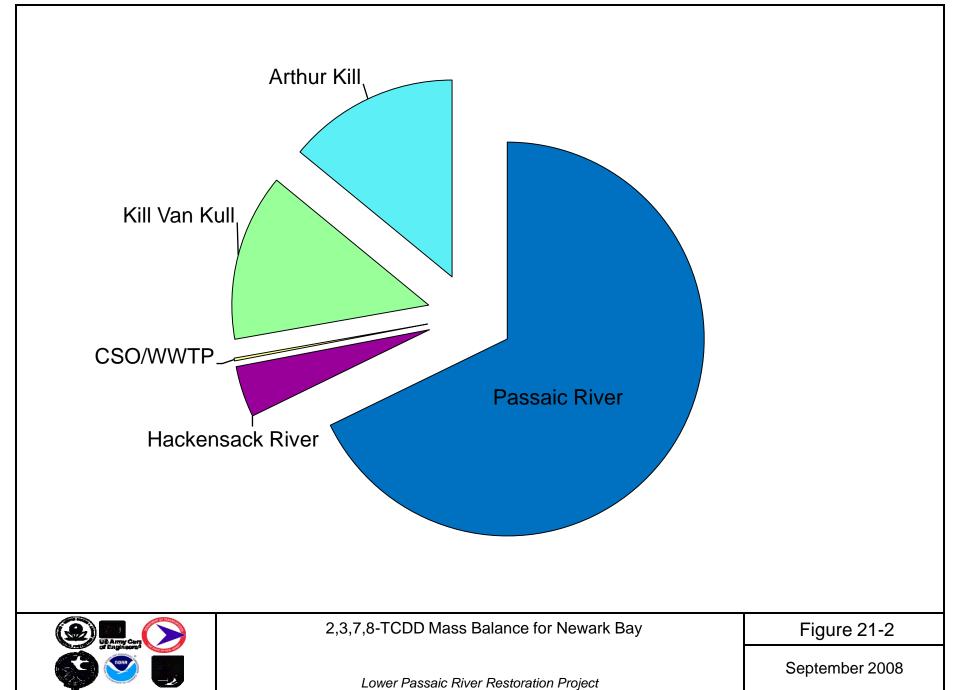


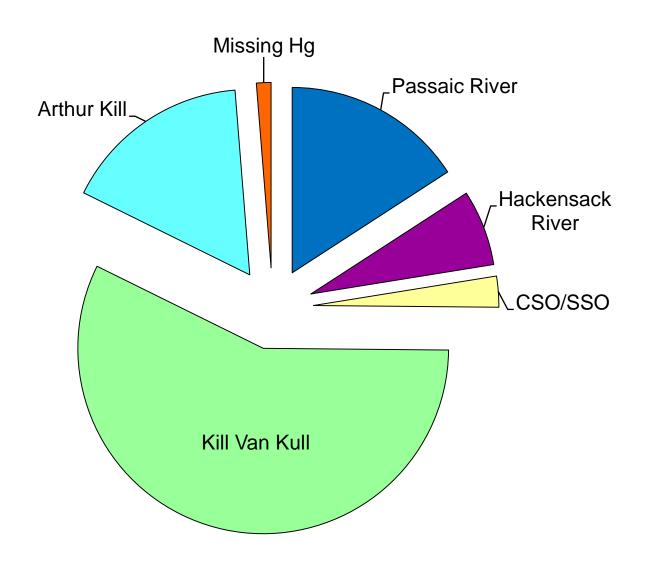


Solids Mass Balance for Newark Bay

Figure 21-1

September 2008







Mercury Mass Balance for Newark Bay

Figure 21-3

September 2008



## **Chapter 22 Figures**



